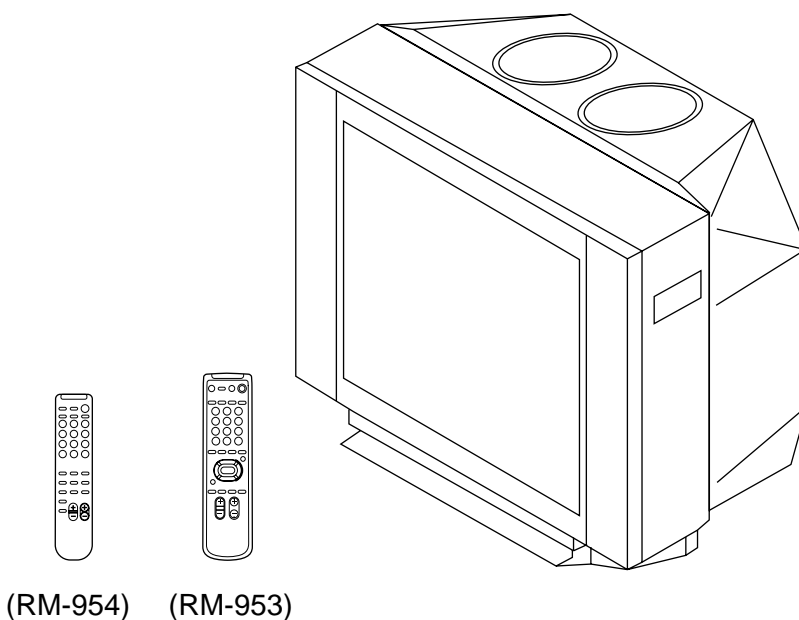


SERVICE MANUAL

BG-3S CHASSIS

<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>	<u>MODEL</u>	<u>COMMANDER</u>	<u>DEST.</u>	<u>CHASSIS NO.</u>
<i>KV-XF34M31</i>	<i>RM-954</i>	<i>OCE</i>	<i>SCC-U24B-A</i>				
<i>KV-XF34M50</i>	<i>RM-954</i>	<i>GE</i>	<i>SCC-U12L-A</i>				
<i>KV-XF34M80</i>	<i>RM-954</i>	<i>E</i>	<i>SCC-U13D-A</i>				
<i>KV-XF34M80</i>	<i>RM-954</i>	<i>ME</i>	<i>SCC-U16S-A</i>				
<i>KV-XF34M93</i>	<i>RM-953</i>	<i>Hong Kong</i>	<i>SCC-U17E-A</i>				



TRINITRON® COLOR TV
SONY®

SPECIFICATIONS

		Note
Power requirements	110-240 V AC, 50/60 Hz	
Power consumption (W)	Indicated on the rear of the TV	
Television system	B/G, I, D/K, M	
Color system	PAL, PAL 60, SECAM, NTSC4.43, NTSC3.58	
Stereo Bilingual system	NICAM Stereo Bilingual B/G, I; A2 Stereo Bilingual (German) B/G	KV-XF34M31/XF34M93 only
Teletext Language	English, Arabic, French	KV-XF34M31 only
Channel coverage		
B/G	VHF: E2 to E12 / UHF: E21 to E69 / CATV: S01 to S03, S1 to S41	
I	UHF: B21 to B68 / CATV: S01 to S03, S1 to S41	
D/K	VHF: C1 to C12, R1 to R12 / UHF: C13 to C57, R21 to R60 CATV: Z1 to Z39, S01 to S03, S1 to S41	
M	VHF: A2 to A13 / UHF: A14 to A79 / CATV: A-8 to A-2, A to W+4, W+6 to W+84	
⌚ (Antenna)	75-ohm external terminal	
Audio output	6W + 6W	(10% distortion) KV-XF34M93
	8W + 8W	Except KV-XF34M93
3D WOOFER	15W	KV-XF34M93 only
Number of terminal		
📺 (Video)	Input: 3 Output: 1	Phono jacks; 1 V _{P-P} , 75 ohms
🎵 (Audio)	Input: 3 Output: 1	Phono jacks; 500 mV _{rms}
📺 (S Video)	Input: 2	Y : 1 V _{p-p} , 75 ohms, unbalanced, sync negative C : 0.286 V _{p-p} , 75 ohms
🎧 (Headphone)	Output: 1	Minijack
Picture tube	34 inch	
Tube size (cm)	86	Measured diagonally
Screen size (cm)	80	Measured diagonally
Dimension (w/h/d, mm)	915 × 686 × 584	KV-XF34M93
	915 × 670 × 584	Except KV-XF34M93
Mass (kg)	86	KV-XF34M93
	81	Except KV-XF34M93

Design and specifications are subject to change without notice.

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!


COMPONENTS IDENTIFIED BY SHADING AND MARK  ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

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SELF DIAGNOSTIC FUNCTION

The units in this manual contain a self-diagnostic function. If an error occurs, the STANDBY/TIMER lamp will automatically begin to flash.

The number of times the lamp flashes translates to a probable source of the problem. A definition of the STANDBY/TIMER lamp flash indicators is listed in the instruction manual for the user's knowledge and reference. If an error symptom cannot be reproduced, the remote commander can be used to review the failure occurrence data stored in memory to reveal past problems and how often these problems occur.

1. DIAGNOSTIC TEST INDICATORS

When an errors occurs, the STANDBY/TIMER lamp will flash a set number of times to indicate the possible cause of the problem. If there is more than one error, the lamp will identify the first of the problem areas.

Result for all of the following diagnostic items are displayed on screen. No error has occurred if the screen displays a "0".

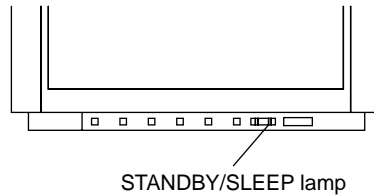
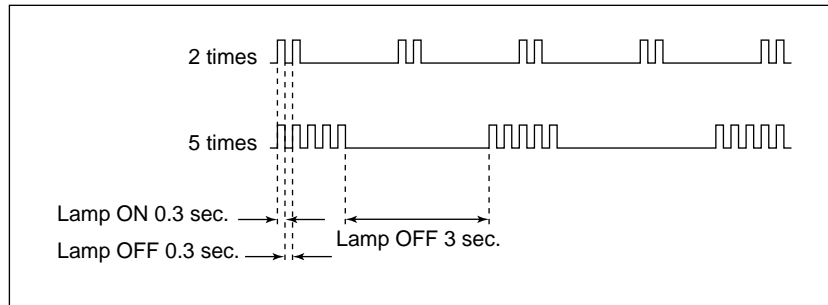
Diagnostic Item Description	No. of times STANDBY/TIMER lamp flashes	Self-diagnostic display/Diagnostic result	Probable Cause Location	Detected Symptoms
• Power does not turn on	Does not light	—	<ul style="list-style-type: none"> • Power cord is not plugged in. • Fuse is burned out F4601 (F) 	<ul style="list-style-type: none"> • Power does not come on. • No power is supplied to the TV. • AC power supply is faulty.
<ul style="list-style-type: none"> • +B overcurrent (OCP) or overvoltage (OVP) • Vertical deflection stopped • Horizontal deflection overdrive 	2 times	002:000 or 002:001~255 003:001~255 004:001~255 at the same time	<ul style="list-style-type: none"> • H.OUT Q511 is shorted. (A board) • IC701 is shorted. (C board) • -13V is not supplied. (A board) • IC 503 faulty (A board) 	<ul style="list-style-type: none"> • Power does not come on. • Load on power line is shorted. • Has entered standby state after horizontal raster. • Vertical deflection pulse is stopped. • Power line is shorted or power supply is stopped.
• White balance failure (no PICTURE)	5 times	005:000 or 005:001~225	<ul style="list-style-type: none"> • G2 is improperly adjusted. (Note 2) • CRT problem. • Video OUT IC701 is faulty. (C board) • IC301 is faulty. (A board) • No connection A board to C board. 	<ul style="list-style-type: none"> • No raster is generated. • CRT cathode current detection reference pulse output is small.
• Micro reset	—	101:00 or 101:001~225	<ul style="list-style-type: none"> • Discharge CRT (C Board) • Static discharge • External noise 	<ul style="list-style-type: none"> • Power is shut down shortly, after this return back to normal. • Detect Micro latch up.

Note 1: If a + B overcurrent is detected, stoppage of the vertical deflection is detected simultaneously.

The symptom that is diagnosed first by the microcontroller is displayed on the screen.

Note 2: Refer to screen (G2) Adjustment in section 3-4 of this manual.

2. DISPLAY OF STANDBY/TIMER LIGHT FLASH COUNT



<u>Diagnostic Item</u>	<u>Flash Count*</u>
+B overcurrent/overvoltage Vertical deflection stopped	2 times
White balance failure	5 times

* One flash count is not used for self-diagnostic.

3. STOPPING THE STANDBY/TIMER FLASH

Turn off the power switch on the TV main unit or unplug the power cord from the outlet to stop the STANDBY/TIMER lamp from flashing.

4. SELF-DIAGNOSTIC SCREEN DISPLAY

For errors with symptoms such as “power sometimes shuts off” or “screen sometimes goes out” that cannot be confirmed, it is possible to bring up past occurrences of failure for confirmation on the screen:

[To Bring Up Screen Test]

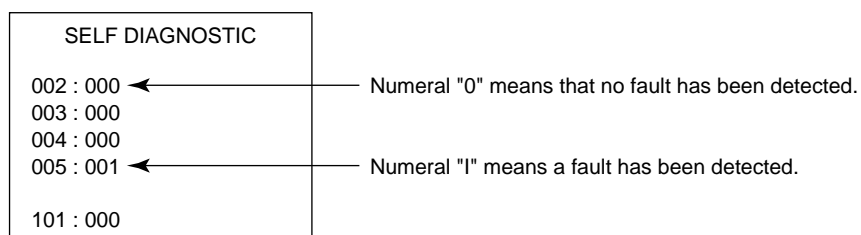
In standby mode, press buttons on the remote commander sequentially in rapid succession as shown below:

Screen display ➡ channel [5] ➡ Sound volume [-] ➡ Power ON



Note that this differs from entering the service mode (mode volume [+]).

Self-Diagnosis screen display



5. HANDLING OF SELF-DIAGNOSTIC SCREEN DISPLAY

Since the diagnostic results displayed on the screen are not automatically cleared, always check the self-diagnostic screen during repairs. When you have completed the repairs, clear the result display to “0”.

Unless the result display is cleared to “0”, the self-diagnostic function will not be able to detect subsequent faults after completion of the repairs.

[Clearing the result display]

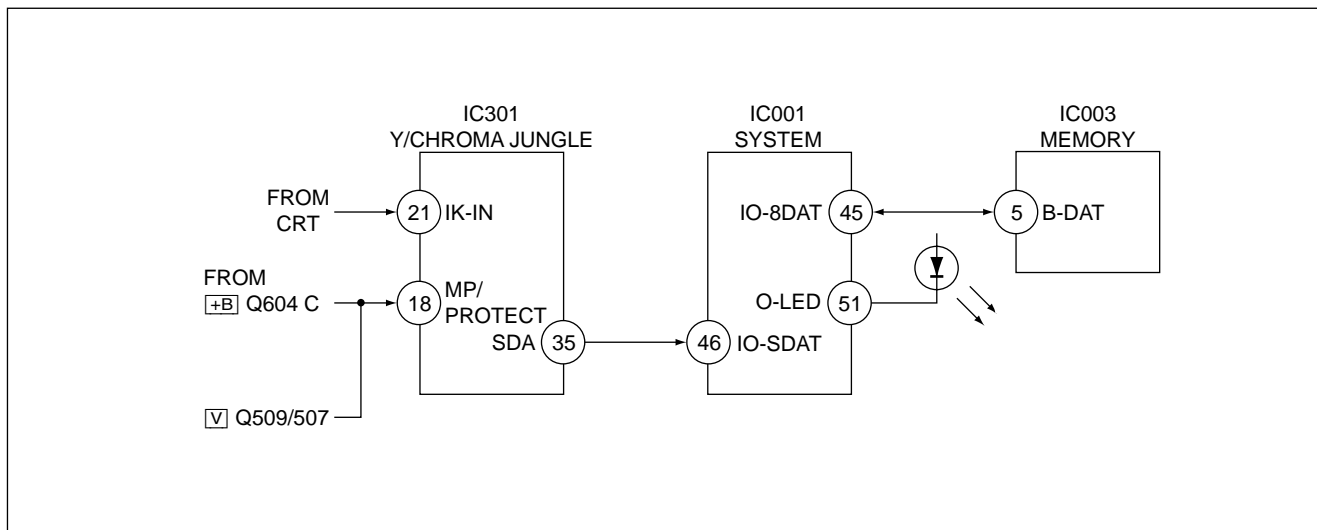
To clear the result display to “0”, press buttons on the remote commander sequentially as shown below when the diagnostic screen is being displayed.

Channel [8] ➡ 0

[Quitting Self-diagnostic screen]

To quit the entire self-diagnostic screen, turn off the power switch on the remote commander or the main unit.

6. SELF-DIAGNOSTIC CIRCUIT



+B overcurrent (OCP)

Occurs when an overcurrent on the +B(135) line is detected by Q604. If Q604 go to ON and the voltage to pin 18 of IC301 should go down when V.SYNC is more than seven verticals in a period, the unit will automatically turn off.

Vertical deflection stopped

Occurs when an absence of the vertical deflection pulse is detected by Q509 and IC001 shut down the power supply.

Vertical deflection overcurrent

Occurs when an overcurrent on V drive line is detected by Q507. Power supply will be shut down when detect this by IC001.

White balance failure

If the RGB levels* do not balance or become low level within 5 seconds, this error will be detected by IC301. TV will stay on, but there will be no picture.

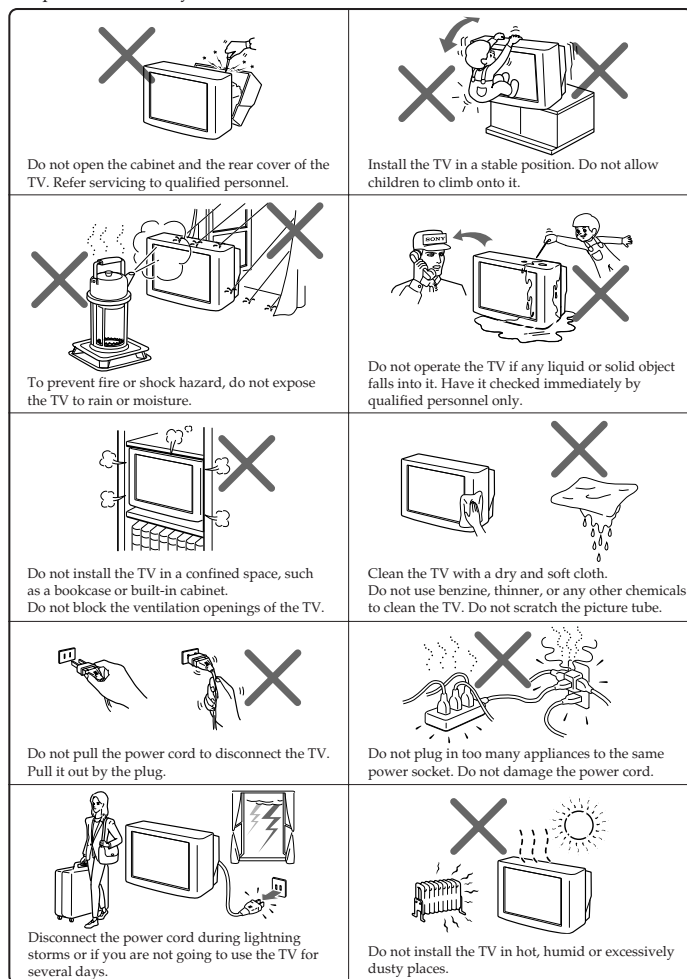
* (Refers to the RGB levels of the AKB detection Ref pulse that detects IK.)

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1-1 GENERAL (KV-XF34M93)

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC.



2

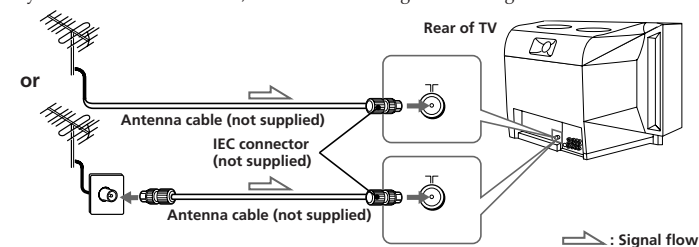
Using Your New TV

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.

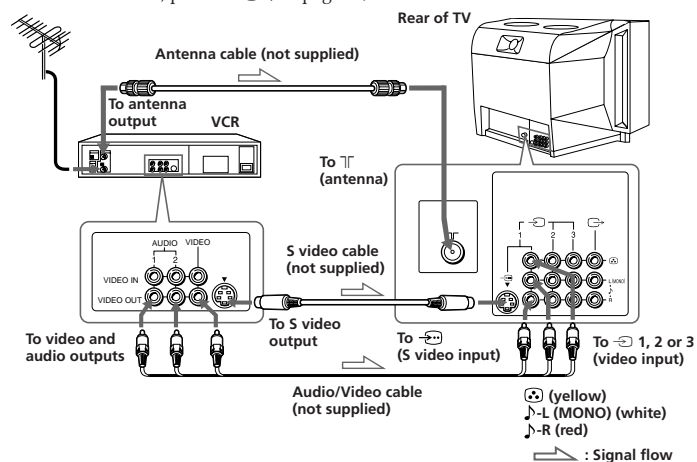


CAUTION

Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Connecting a VCR

To watch the video, press (see page 10).



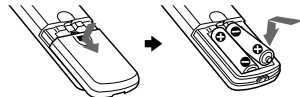
4 Using Your New TV

Notes

- If you connect a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to (the white jack).
- If you connect a VCR to the (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- If both (S video input) and 1 (video input) at the rear of your TV are input at the same time, the (S video input) is automatically selected. To view 1 (video input), disconnect the S video cable.
- Do not connect video equipment to 3 (video input) at the front and the rear of your TV at the same time; otherwise the picture will not be displayed properly on the screen.
- When no signal is input to the connected video equipment, the TV screen becomes blue.

Step 2

Insert the batteries into the remote



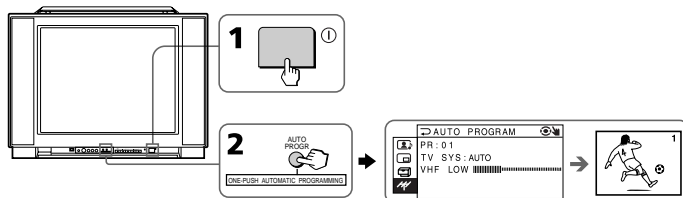
Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically

Front of TV



Tip

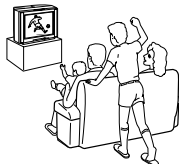
- If you want to stop the automatic channel presetting, press MENU twice.

Note

- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 31).

Now You Are Ready. . .

To watch your TV, see page 9.

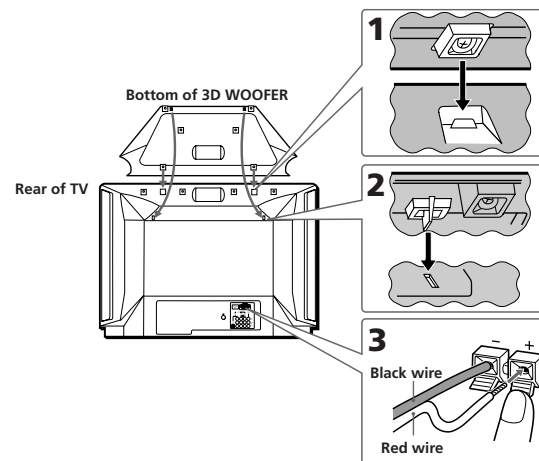


Using Your New TV

5

Connecting the 3D WOOFER

You can enjoy high quality sound by connecting the 3D WOOFER.



- 1 Place the foot at the front of the 3D WOOFER into the footholds on the top of your TV.
- 2 Fit the ribs at the back of the 3D WOOFER into the provided slots at the back of your TV.
- 3 Connect the wires to the 3D WOOFER (8Ω) terminals at the rear of your TV. The red wire should be connected to the ⊕ red terminal and the black wire to the ⊖ black terminal.

Notes

- Connect only the supplied 3D WOOFER; otherwise your TV may malfunction.
- Unplug your TV from the wall outlet when connecting the 3D WOOFER.
- To prevent a malfunction caused by a short circuit of the terminals, make sure that none of the 3D WOOFER wire strands stick out, making contact with its neighbouring 3D WOOFER terminal.

6 Using Your New TV

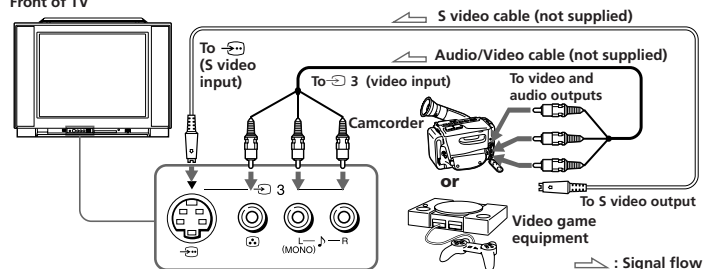
Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the picture of the connected equipment, press (see page 10).

Connecting a camcorder/video game equipment using the (video input) jacks

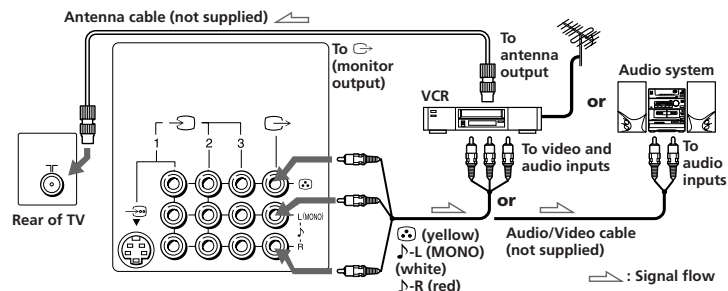
Front of TV



Notes

- You can also connect video equipment to the 1, 2 or 3 (video input) jacks at the rear of your TV.
- If both (S video input) and 3 (video input) at the front of your TV are input at the same time, the (S video input) is automatically selected. To view 3 (video input), disconnect the S video cable.

Connecting audio/video equipment using the (monitor output) jacks



Note

- When connecting a monaural VCR, connect the yellow plug to (the yellow jack) and the black plug to -L (MONO) (the white jack).

Using Your New TV | 7

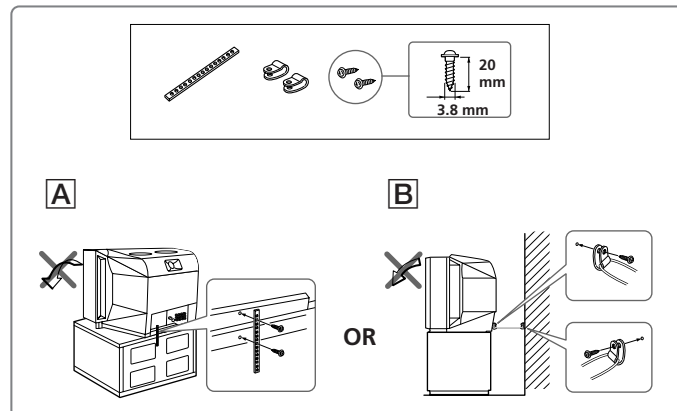
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

- A** With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

OR

- B** Put the cord or chain through the clamps to secure the TV against a wall or pillar.



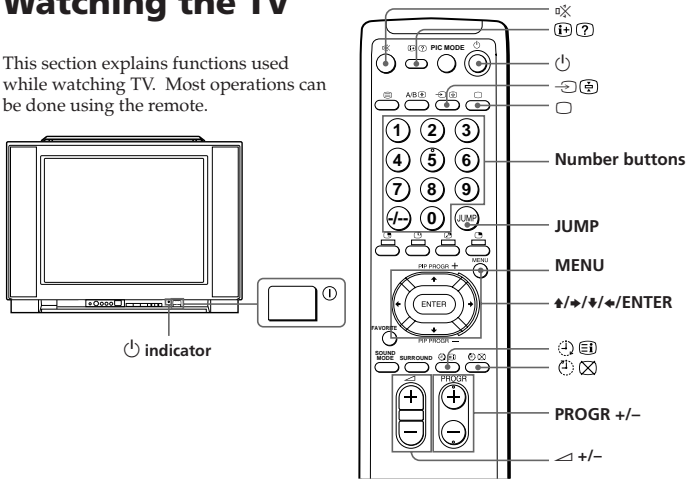
Note

- Use only the supplied screws. Use of other screws may damage the TV.

8 | Using Your New TV

Watching the TV

This section explains functions used while watching TV. Most operations can be done using the remote.



Using Your New TV

- 1 Press to turn on the TV. When the TV is in the standby mode (the indicator on the TV is lit red), press on the remote or PROGR +/- on the TV.
- 2 Press PROGR +/- or number buttons to select the TV program. For double digit numbers, press +/-, then the number (e.g., for 25, press +/-, then 2 and 5).
- 3 Press to adjust the volume.

Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press . The indicator on the TV lights up red.
Turn off completely	Press on the TV.
Mute the sound	Press .
Watch the video input (VCR, camcorder, etc.)	Press to select "VIDEO 1", "VIDEO 2" or "VIDEO 3". To return to the TV program, press .
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press .

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the menu language


You can change the menu language as well as the on-screen language. For details on how to use the menu, see "How to use the menu" on page 23.

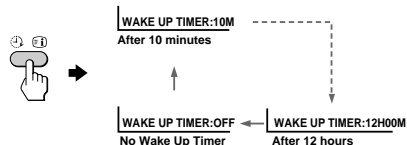
- 1 Press MENU. →
- 2 Press or to select the SET UP icon () , then press ENTER. → →
- 3 Make sure "LANGUAGE/ 语言" is selected, then press ENTER. →
- 4 Press or to select "中文", then press ENTER. The menu language changes to Chinese. → →



To return to the normal screen

Press MENU.

Setting the Wake Up timer

- 1 Press  until the desired period of time appears.



- 2 Select the TV program or video mode you want to display when you wake up.
- 3 Press  or set the Sleep timer if you want the TV to turn off automatically. The  indicator lights up orange.


To cancel the Wake Up timer

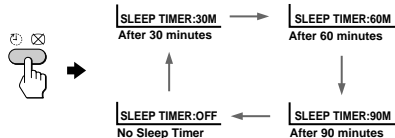
Press  until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

Notes


- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

Press  until the desired period of time appears.



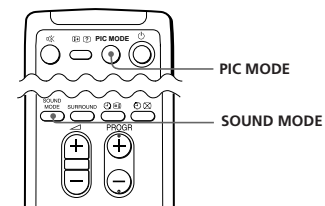
To cancel the Sleep timer

Press  until "SLEEP TIMER: OFF" appears or turn the TV off.

Advanced Operations

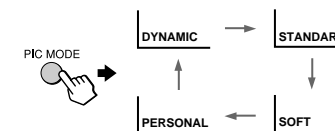
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in PERSONAL option.



Selecting the picture mode

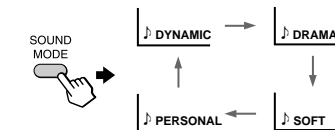
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.
PERSONAL	receive the last adjusted picture setting from the ADJUST option in the A/V CONTROL menu (see page 24 and 25).

Selecting the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



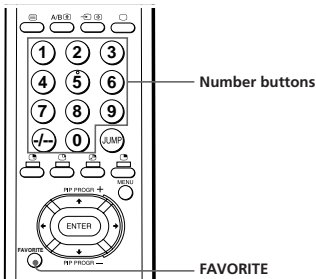
Select	To
DYNAMIC	listen to dynamic and clear sound that emphasizes the low and high tones.
DRAMA	listen to sound that emphasizes voice and high tones.
SOFT	receive soft sound.
PERSONAL	receive the last adjusted sound setting from the ADJUST option in the A/V CONTROL menu (see page 24 and 25).

Tip

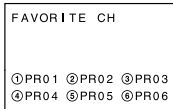
- You can also set the picture and sound modes using the menu (see "Changing the A/V CONTROL setting" on page 24).

Viewing your favorite channels

You can display and select six of your favorite channels directly from your TV screen.



1 Press FAVORITE.



2 Press the number button from 1 to 6 to select the desired channel.



Advanced Operations

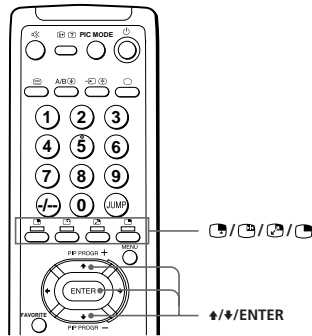
Tip

- To program your favorite channels, see "Programming your favorite channels" on page 28.

Watching two programs at the same time

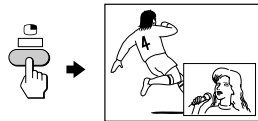
—PIP

With the Picture-in-Picture (PIP) feature, you can display a different TV program or video directly within the main picture.



Displaying the PIP screen

Press .



Additional PIP tasks

To	Press
change a TV program in the PIP screen	▲ or ▼.
change a video input in the PIP screen	⏏ (or ⏏ on the TV).
swap pictures between the main and PIP screens	⏏.
freeze the PIP screen	⏏. To unfreeze the screen, press the ⏏ button again.



To return to the normal screen

Press ⏏.

Tips

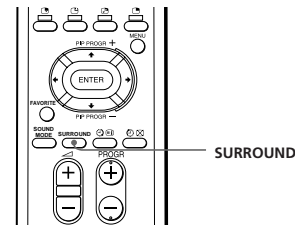
- You can also display the PIP screen using the menu (see “Adjusting the PIP setting” on page 26 and 27).
- You can change the position of the PIP screen (see “Adjusting the PIP setting” on page 26 and 27).

Notes

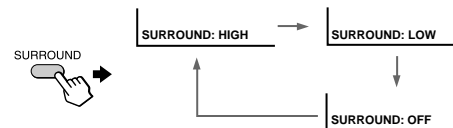
- When you display a video input on the PIP screen at a faster/slower speed, the picture may be disrupted depending on the VCR type.
- If you display different color systems on the PIP screen, the size of the PIP screen may be different and the picture may be disrupted. This does not indicate a malfunction of the TV.

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



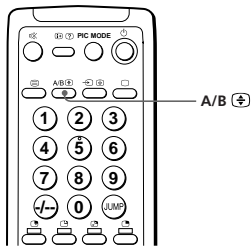
Select	To
HIGH	listen to sound that spreads out over a large area, giving the feeling of being at a concert hall.
LOW	listen to the sound that gives the feeling of being at a live concert.
OFF	turn off the surround sound.

The surround of your TV is categorized as TruSurround.

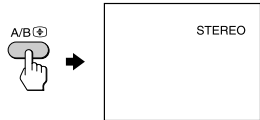
TruSurround™ is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents.

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



Press A/B repeatedly until you receive the sound you want.
The on-screen display changes to show the selected sound and the indicator on the TV lights up red.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	<div>NICAM (Stereo sound) → MONO (Regular sound)</div>
NICAM bilingual	<div>NICAM MAIN (Main sound) → NICAM SUB (Sub sound) → MONO (Regular sound)</div>
NICAM monaural	<div>NICAM MAIN (Main sound) → MONO (Regular sound)</div>

continued

Selecting a stereo or bilingual program (continued)

When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	<div>MONO (Regular sound) → STEREO (Stereo sound)</div>
A2 (German) bilingual	<div>MAIN (Main sound) → SUB (Sub sound)</div>

Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

- Notes
- If the signal is very weak, the sound becomes monaural automatically.
 - If the stereo sound is noisy when receiving a NICAM program, select “MONO”. The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the antenna terminal

Press A/B repeatedly until “MONO” appears on the screen.
To cancel the monaural sound setting, press A/B again until “AUTO” appears on the screen.



- Notes
- The “MONO” or “AUTO” setting is memorized for each program position.
 - You cannot receive stereo broadcast signal when the TV is in the “MONO” setting. Normally set the TV to “AUTO”.

Adjusting Your Setup (MENU)

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. Here’s an overview of the menu system.

Return icon

A/V CONTROL icon

PIP icon

SET UP icon

CH PRESET icon

Menu level 1

SET UP

LANGUAGE: ENGLISH

CHILD LOCK 中文

PIC ROTATI

FAVORITE C

INTELLIGEN

Name of the current menu

Menu guide icon

Menu level 3

Menu level 2

Level 1	Level 2	Level 3/Function
A/V CONTROL	PICTURE MODE	Select the picture mode. DYNAMIC → STANDARD → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. PICTURE→COLOR→BRIGHT→HUE→SHARP
	SOUND MODE	Select the sound mode. DYNAMIC → DRAMA → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. BASS→TREBLE→BALANCE→BBE*
PIP	SURROUND	Select the surround mode. HIGH→LOW→OFF
	PIP POSITION	Change the position of the PIP screen.
	PIP	Display a sub screen within the main picture.
SET UP	SWAP	Exchange program between main screen and sub screen
	LANGUAGE/ 语言	Change the menu language. ENGLISH - 中文 (Chinese)
	CHILD LOCK	Lock the channel independently.
	PIC ROTATION	Adjust the picture position.
	FAVORITE CH	Program favorite channels.
	INTELLIGENT VOL	Adjust volume automatically.

Introducing the menu system (continued)

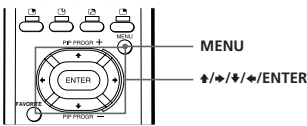
Level 1	Level 2	Level 3/Function
CH PRESET	AUTO PROGRAM	Preset channels automatically.
	MANUAL PROGRAM	Preset channels manually.
	SKIP	Skip unwanted or unused program positions.
	TV SYS	Select the TV system. B/G→I→D/K→M
	COL SYS	Select the color system. AUTO→PAL→SECAM→NTSC3.58→NTSC4.43

* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word “BBE” and the BBE symbol are the trademarks of BBE Sound, Inc.

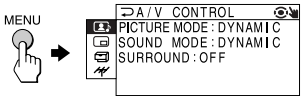
continued

How to use the menu

You can use the buttons on the remote and on the TV as well to display the menu and adjust the settings.



- 1 Press MENU to display the menu.



- 2 Press \uparrow or \downarrow to select the desired item.



- 3 Press ENTER to confirm your option and go to the next menu level.



Other menu operations

To	Press
Adjust the setting value	\uparrow , \downarrow , \leftarrow or \rightarrow
Move to the next/previous menu level*	\leftarrow or \rightarrow
Cancel the menu	MENU

* If you want to exit from Menu Level 2 to Menu Level 1, you can also press \uparrow or \downarrow until the return icon (\hookrightarrow) is highlighted, then press ENTER.

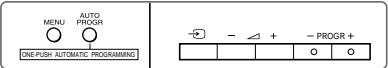
Note

- If more than 60 seconds elapse between entries, the menu screen automatically disappears.

Tip

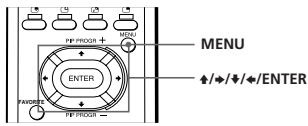
- You can also use the buttons on the TV for menu operations. \triangleleft / \rightarrow works as \uparrow or \downarrow on the remote and \hookrightarrow works as ENTER on the remote.

Front of TV



Changing the A/V CONTROL setting

The A/V CONTROL menu allows you to change the picture and sound settings.

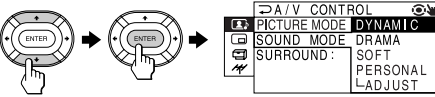


- 1 Press MENU.

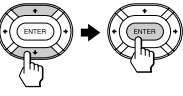
- 2 Make sure the A/V CONTROL icon (\hookrightarrow) is selected, then press ENTER.



- 3 Press \uparrow or \downarrow to select either PICTURE MODE, SOUND MODE, or SURROUND, then press ENTER.



- 4 Press \uparrow or \downarrow to select the desired option, then press ENTER.



For	Select
PICTURE MODE	either DYNAMIC, STANDARD, SOFT, PERSONAL*, or ADJUST.
SOUND MODE	either DYNAMIC, DRAMA, SOFT, PERSONAL*, or ADJUST.
SURROUND	either HIGH, LOW, or OFF.

* When the PERSONAL mode is selected, the last adjusted picture and sound settings from the ADJUST option are received.

Tip

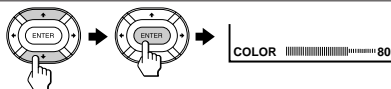
- For details on the options under “PICTURE MODE” and “SOUND MODE”, or “SURROUND”, see page 12 or 16 respectively.

To return to the normal screen

Press MENU.

Adjusting the ADJUST options under PICTURE MODE

- 1** Press \blacktriangle or \blacktriangledown to select the desired item (e.g., COLOR), then press ENTER.



- 2** Adjust the value according to the following table, then press ENTER.

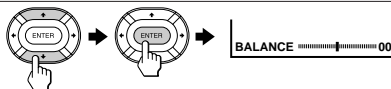
For	Press $\blacktriangle/\blacktriangledown$ to	Press $\blacktriangle/\blacktriangledown$ to
PICTURE	decrease picture contrast	increase picture contrast
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
HUE*	increase red picture tones	increase green picture tones
SHARP	soften the picture	sharpen the picture

* You can adjust HUE for the NTSC color system only.

- 3** Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

Adjusting the ADJUST options under SOUND MODE

- 1** Press \blacktriangle or \blacktriangledown to select the desired item (e.g., BALANCE), then press ENTER.



- 2** Adjust the value according to the following table, then press ENTER.

For	Press $\blacktriangle/\blacktriangledown$ to	Press $\blacktriangle/\blacktriangledown$ to
BASS	decrease the bass	increase the bass
TREBLE	decrease the treble	increase the treble
BALANCE	increase the left speaker's volume	increase the right speaker's volume
BBE	select "HIGH" for higher enhancement of sound clarity; select "LOW" for lower enhancement of sound clarity; select "OFF" to turn off the BBE sound	

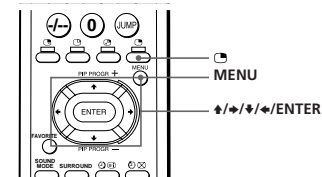
- 3** Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

Tip

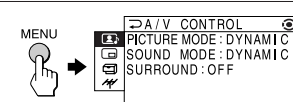
- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 21 and "How to use the menu" on page 23.

Adjusting the PIP setting

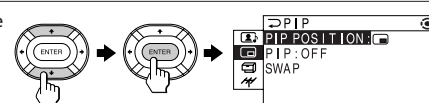
With the Picture-In-Picture (PIP) feature, you can display a sub screen within the main picture of different TV programs or video inputs.



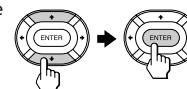
- 1** Press MENU.



- 2** Press \blacktriangle or \blacktriangledown to select the PIP icon (PIP), then press ENTER.

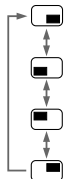


- 3** Press \blacktriangle or \blacktriangledown to select the desired option (refer following table), then press ENTER.



PIP operations

Select	To
PIP POSITION	change the position of the PIP screen. Press \blacktriangle or \blacktriangledown to select the desired position, then press ENTER.
PIP	display a sub screen within the main picture. Press \blacktriangle or \blacktriangledown to select "ON", then press ENTER. To cancel, press \square or select "PIP : OFF", then press ENTER.
SWAP	exchange program between main screen and sub-screen.



To return to the normal screen

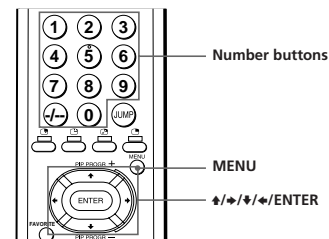
Press MENU.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 21 and "How to use the menu" on page 23.

Changing the SET UP setting

The SET UP menu allows you to change the menu language, lock channels, adjust the picture position, program your favorite channels and adjust volume automatically.



Programming your favorite channels

The FAVORITE CH feature enables you to program up to six channels for direct selection.

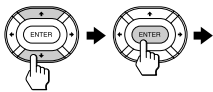
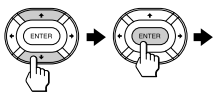
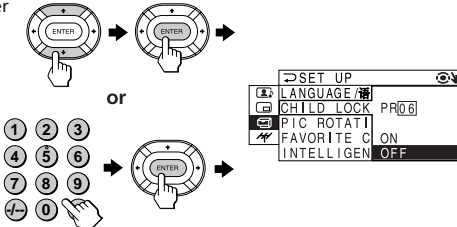
- Press MENU.
- Press \blacktriangle or \blacktriangledown to select the SET UP icon (\square), then press ENTER.
- Press \blacktriangle or \blacktriangledown to select FAVORITE CH, then press ENTER twice.
- Press \blacktriangle or \blacktriangledown , or number buttons to program the desired channel (e.g., PR03), then press ENTER.
- To continue programming other favorite channels, press \blacktriangle or \blacktriangledown and then press ENTER. After that, repeat step 4.

To return to the normal screen

Press MENU.


Using the CHILD LOCK feature

You can prevent your children from watching certain programs by using the CHILD LOCK feature.

- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select the SET UP icon (⚙️), then press ENTER.
 
- 3 Press \uparrow or \downarrow to select CHILD LOCK, then press ENTER.
 
- 4 Press \uparrow or \downarrow , or number buttons to select the desired channel, then press ENTER.
 
- 5 Press \uparrow or \downarrow to select ON, then press ENTER.

The lock symbol (🔒) appears on the screen.

To unlock the channel, select OFF.

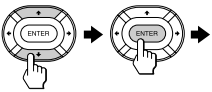
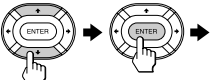

- 6 To continue locking other channels, press ENTER and then repeat step 4 to 5.


To return to the normal screen

Press MENU.

Changing the SET UP setting (continued)

Changing other SET UP menu options

- 1 Press MENU.
- 2 Press \uparrow or \downarrow to select the SET UP icon (⚙️), then press ENTER.
 
- 3 Press \uparrow or \downarrow to select the desired option (e.g., INTELLIGENT VOL), then press ENTER.
 

Select	To
LANGUAGE/ 语言	Change the menu language (see "Changing the menu language" on page 10).
CHILD LOCK	Prevent children from watching certain programs (see "Using the CHILD LOCK feature" on page 29).
PIC ROTATION	Adjust the picture position when it is not aligned to the TV screen. Press \uparrow , \downarrow , \leftarrow , or \rightarrow to adjust the picture position, then press ENTER. 
FAVORITE CH	Program channels for direct selection (see "Programming your favorite channels" on page 28).
INTELLIGENT VOL	Adjust the volume of each program automatically. Press \uparrow or \downarrow to select "ON", then press ENTER. To turn off the Intelligent Volume function, select "OFF", then press ENTER.

To return to the normal screen

Press MENU.

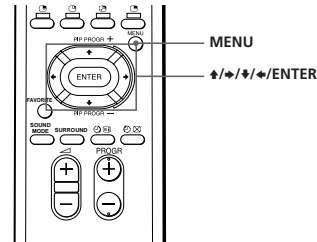
Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 21 and "How to use the menu" on page 23.

continued

Changing the Channel Preset (CH PRESET) setting

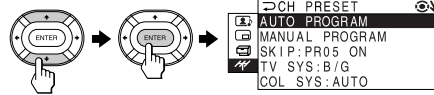
The CH PRESET menu allows you to adjust the setup of your TV. For example, you can receive a channel with a weak signal that fails to be tuned in by automatic presetting.



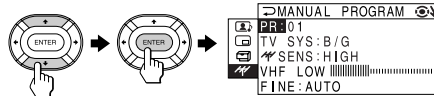
Presetting channels manually

1 Press MENU.

2 Press \blacktriangle or \blacktriangledown to select the CH PRESET icon (★), then press ENTER.

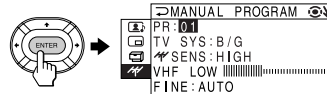


3 Press \blacktriangle or \blacktriangledown to select MANUAL PROGRAM, then press ENTER.

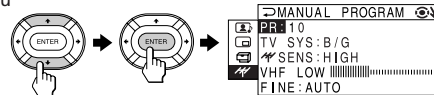


4 Select the program number to which you want to preset a channel.

(1) Make sure "PR" is selected, then press ENTER.



(2) Press \blacktriangle or \blacktriangledown until the program number you want to preset (e.g., program number 10) appears on the menu, then press ENTER.



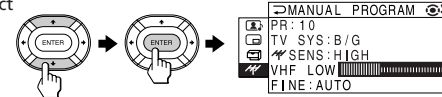
continued

Adjusting Your Setup (MENU) | 31

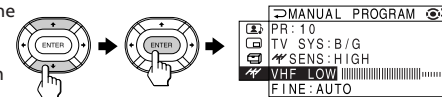
Changing the Channel Preset (CH PRESET) setting (continued)

5 Select the desired channel.

(1) Press \blacktriangle or \blacktriangledown to select either VHF LOW, VHF HIGH or UHF, then press ENTER.

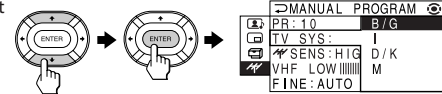


(2) Press \blacktriangle or \blacktriangledown until the desired channel picture appears on the TV screen, then press ENTER.

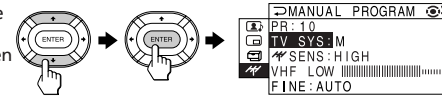


6 If the sound of the desired channel is abnormal, select the appropriate TV system.

(1) Press \blacktriangle or \blacktriangledown to select TV SYS, then press ENTER.

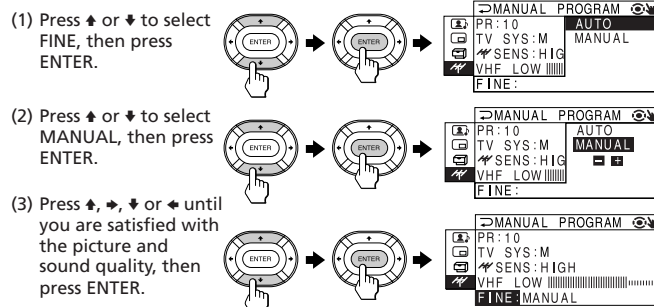


(2) Press \blacktriangle or \blacktriangledown until the sound becomes normal (e.g., M), then press ENTER.

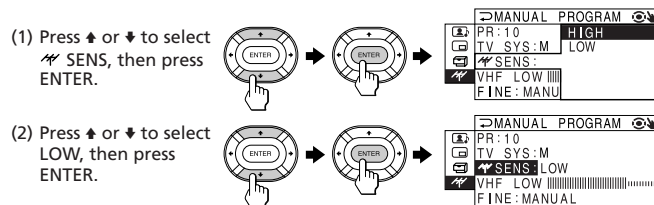


32 | Adjusting Your Setup (MENU)

- 7** If you are not satisfied with the picture and sound quality, you may improve them by using fine tuning.



- 8** If the TV signal is too strong and the picture is distorted, you may reduce the TV receiving sensitivity.



To return to the normal screen

Press MENU.

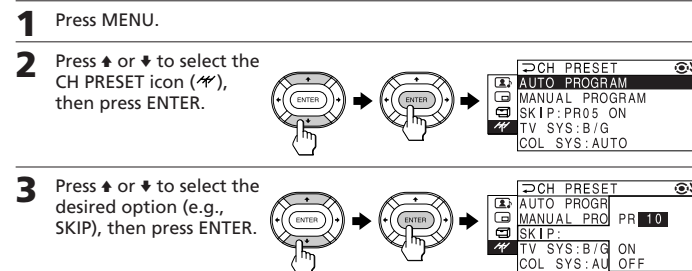
Note

- The TV system (TV SYS), SENS and the fine tuning (FINE) settings are memorized for each program number.

continued

Changing the Channel Preset (CH PRESET) setting (continued)

Changing other CH PRESET menu options



Select	To
AUTO PROGRAM	preset channels automatically.
MANUAL PROGRAM	preset channels manually. See "Presetting channels manually" on page 31.
TV SYS	select the TV system. See "Presetting channels manually" on page 32.
COL SYS	select the color system. Normally, set this to "AUTO".
SKIP	skip unwanted or unused program numbers. 1 Press ▲ or ▼ until the unused or unwanted program number appears, then press ENTER. 2 Press ▲ or ▼ to select "ON", then press ENTER. To put the skipped program number back on, select "OFF", then press ENTER.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 21 and "How to use the menu" on page 23.









Note

- If you preset a locked channel, that particular channel will be unlocked automatically.

Additional Information

Troubleshooting

If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer.







Symptom	Solutions	Possible cause
Snowy picture 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) Display the CH PRESET menu and select "MANUAL PROGRAM" to preset the channel again. (page 31) 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged.
Noisy sound 	<ul style="list-style-type: none"> Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	<ul style="list-style-type: none"> The antenna type is inappropriate. The antenna direction is inappropriate. Signal transmission is low.
Distorted picture 	<ul style="list-style-type: none"> Display the CH PRESET menu and select "MANUAL PROGRAM". Then, select "SENS: ON". (page 33) Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are too strong.
Noisy sound 		
Good picture 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, display the CH PRESET menu and check the TV system (TV SYS) setting (page 32), then select "AUTO PROGRAM" to preset the channels again. (page 34) If the sound of some channels are noisy, select the channel, then display the CH PRESET menu and select the appropriate TV system (TV SYS). (page 32) 	<ul style="list-style-type: none"> The TV system setting or channel presetting is inappropriate or incomplete.
Noisy sound 		
No picture 	<ul style="list-style-type: none"> Check the power cord, antenna and the VCR connections. Press \odot (power). Press $\textcircled{1}$ (main power) on the TV to turn off the TV about five seconds, then turn it on again. 	<ul style="list-style-type: none"> The power cord, antenna or VCR is not connected. The TV is not turned on.
No sound 		

Additional Information


continued

Additional Information | 35

Troubleshooting (continued)

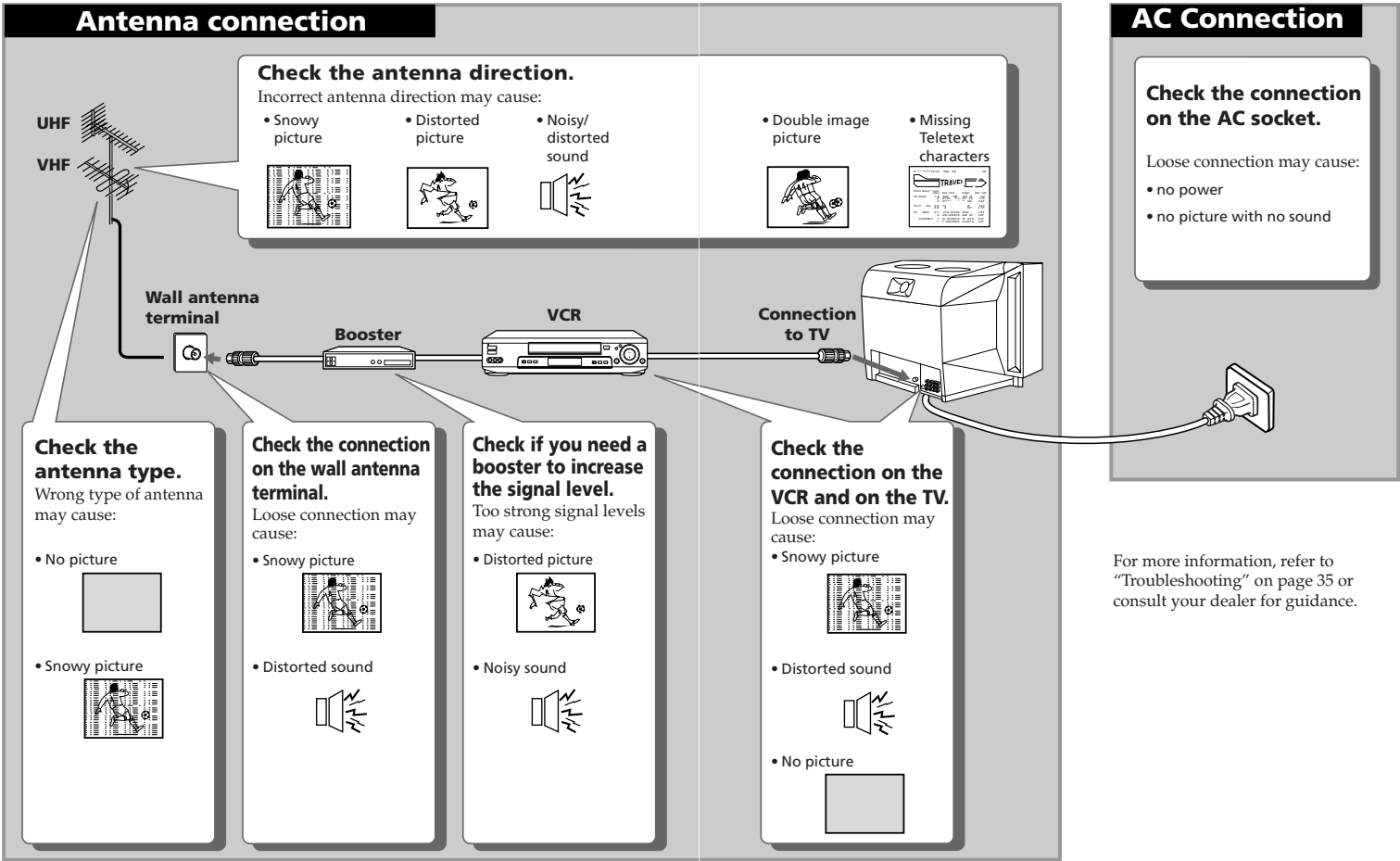
Symptom	Solutions	Possible cause
Good picture 	<ul style="list-style-type: none"> Press \triangleleft + to increase the volume level. Press $\textcircled{\times}$ to cancel the muting. Press A/B $\textcircled{+}$ until a good sound is heard. 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. Broadcast signal has a transmission problem.
No sound 		
Dotted lines or stripes 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts" 	<ul style="list-style-type: none"> Use a highly directional antenna. Use the fine tuning (FINE) function. (page 33) Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction is inappropriate. Use of a booster is inappropriate.
No color 	<ul style="list-style-type: none"> Display the A/V CONTROL menu and select "ADJUST" of PICTURE MODE, then adjust the COLOR level. (page 25) Display the CH PRESET menu and check the color system (COL SYS) setting (usually set this to AUTO). (page 22) Adjust the antenna direction. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction is inappropriate.
Abnormal color patches 	<ul style="list-style-type: none"> Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press $\textcircled{1}$ (main power) on the TV to turn off the TV for about five minutes, then turn it on again. 	<ul style="list-style-type: none"> There are magnetic effects from external speakers or other electrical equipment that may affect the TV. The direction of the earth's magnetic field may affect the TV.
TV cannot receive stereo broadcast signal.	<ul style="list-style-type: none"> Press A/B $\textcircled{+}$ until "AUTO" appears on the screen. 	<ul style="list-style-type: none"> The stereo reception setting is inappropriate.

36 | Additional Information



Symptom	Solutions	Possible cause
Stereo broadcast sound switches on and off or is distorted. OR The sound switches between monaural and stereo frequently.	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) Adjust the antenna direction. Contact a Sony dealer for advice. Press A/B (⊕) until a good sound is heard. 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. The antenna direction is inappropriate. Broadcast signal has a transmission problem.
"100" appears on the top of the screen and there is no Teletext display.	—	<ul style="list-style-type: none"> The channel carries no Teletext broadcast.
Teletext display is incomplete (snowy picture or double images). (not for this model.)	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and at the wall. (page 4) Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. Use the fine tuning (FINE) function. (page 33) 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. The antenna direction needs adjustment. The signal transmission is too low.
Picture slant 	<ul style="list-style-type: none"> Display the SET UP menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. (page 30) 	<ul style="list-style-type: none"> The terrestrial magnetism affects your TV set.
Lines moving across the TV screen.	<ul style="list-style-type: none"> Use the fine tuning (FINE) function. (page 33) 	<ul style="list-style-type: none"> There is interference from external sources, e.g., heavy machineries, nearby broadcast station.
The ⏻ indicator on your TV flashes red a number of times between 3-second intervals.	<ul style="list-style-type: none"> Contact your nearest Sony service center. (page 40) 	<ul style="list-style-type: none"> Your TV may need service.
TV cabinet creaks.	—	<ul style="list-style-type: none"> Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
A "boom" sound is heard when the TV is turned on.	—	<ul style="list-style-type: none"> The TV's demagnetizing function is working. This does not indicate a malfunction.

Troubleshooting shortcuts

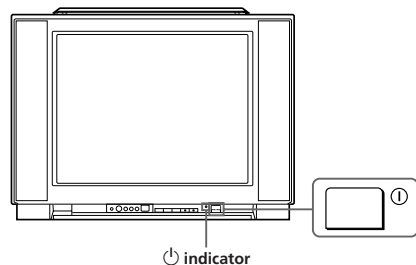
For better viewing, check the following connections.






Self-diagnosis function

Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  indicator flashes red. The number of times the  indicator flashes indicates the possible causes.

Front of TV

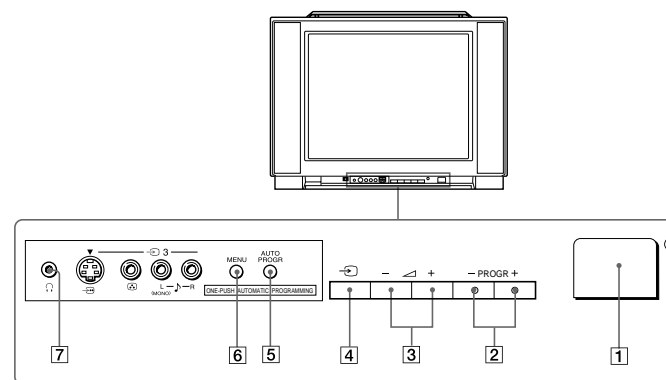





- 1** Check that the  indicator flashes red a number of times between 3-second intervals.
- 2** Count the number of times the  indicator flashes.
- 3** Press ① (main power) to turn off your TV.
- 4** Inform your nearest Sony service center about the number of times the  indicator flashes.
Be sure to note the model name and serial number located on the rear of your TV.

Identifying parts and controls

Refer to the pages indicated in parentheses () for details.

Front panel

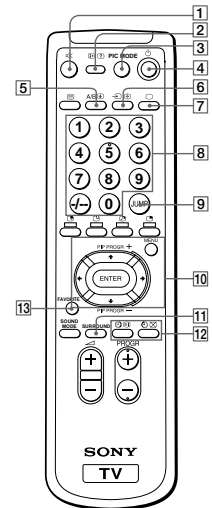


- 1** ① (main power) button (9)
- 2** PROGR +/- (program) buttons (9)
- 3**  +/- (volume) buttons (9)
- 4**  (TV/video) button (10)
- 5** AUTO PROGR (auto program) button (5)
- 6** MENU button (23)
- 7**  (Headphone) jack

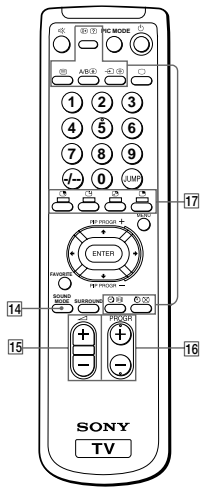
continued

Identifying parts and controls (continued)

Remote Control

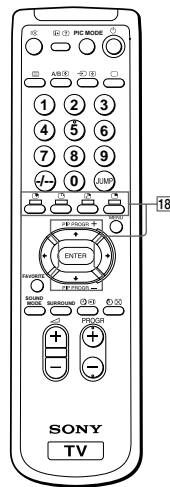


- 1 Muting button (10)
- 2 Display button (10)
- 3 PIC MODE button (12)
- 4 Power button (9)
- 5 A/B button (17)
- 6 Video button (10)
- 7 TV button (10)
- 8 Number buttons (9)
- 9 JUMP button (10)
- 10 Menu operation buttons (23)
MENU button
- 11 SURROUND button (16)
- 12 Timer setting buttons (11)
Wake up timer
Sleep timer
- 13 FAVORITE button (13)



- 14 SOUND MODE button (12)
- 15 +/- (volume) buttons (9)
- 16 PROGR +/- button (9)
- 17 Teletext operation buttons (19-20)
(not for this model.)
(text) (enlarge)
(reveal) (hold)
(index) (text clear)
(FASTEXT: red, green, yellow, blue)

Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.	
Label color	Button function
White	For general TV operations
Green	For Teletext operations
Yellow	For PIP operations



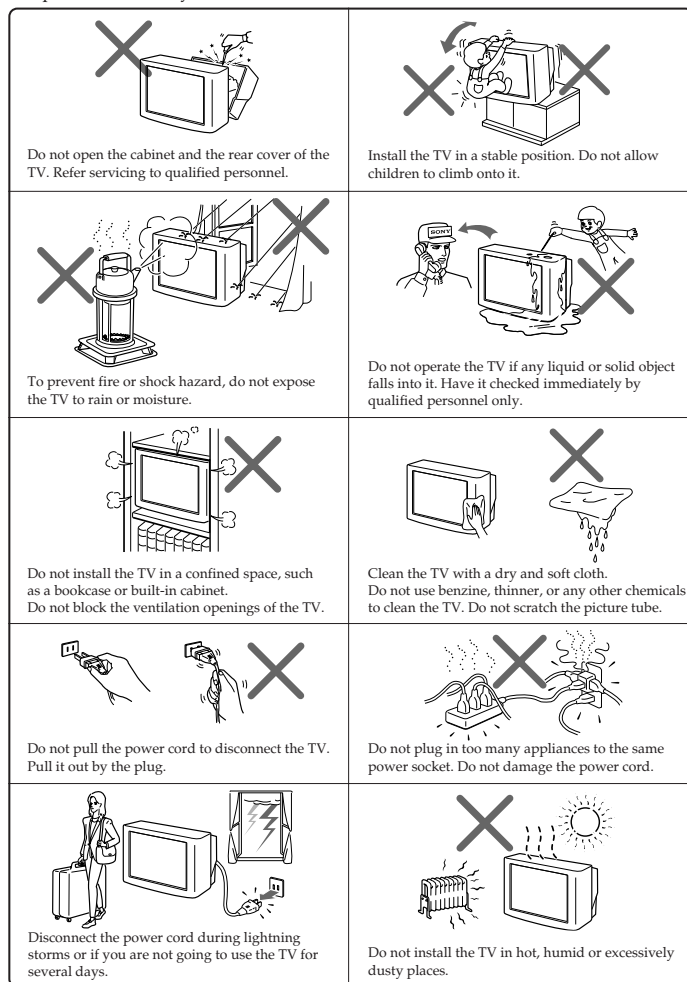
- 18 PIP operation buttons (14-15)
(TV/video)
(freeze)
(swap)
(PIP)
ENTER – for PIP PROGR

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remain as in the manual.

SECTION 1-2 GENERAL (Except KV-XF34M93)

WARNING

- Dangerously high voltages are present inside the TV.
- Operate the TV only between 110 – 240 V AC.



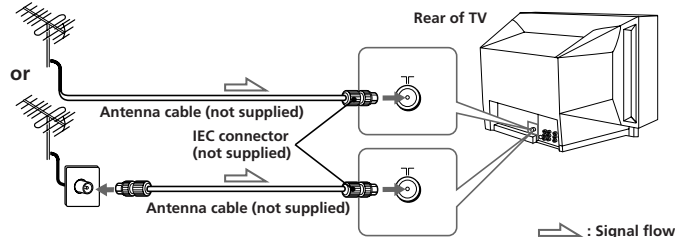
Using Your New TV

Getting Started

Step 1

Connect the antenna

If you wish to connect a VCR, see the "Connecting a VCR" diagram below.

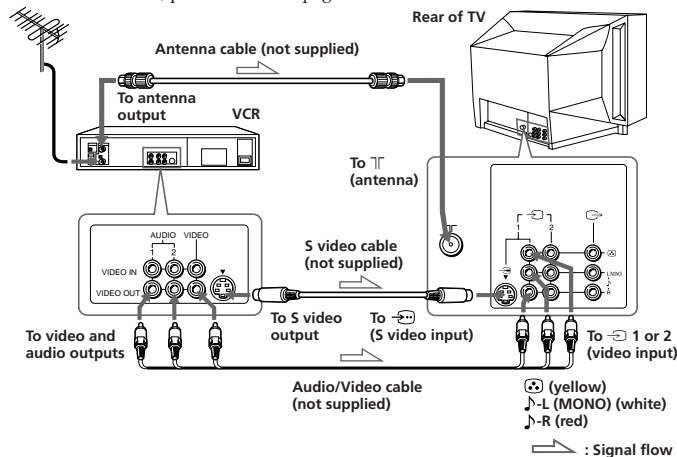


CAUTION

Do not connect the power cord until you have completed making all other connections; otherwise a minimum leakage current might flow through the antenna and other terminals to ground.

Connecting a VCR

To watch the video, press (see page 10).

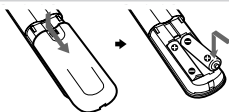


Notes

- If you connect a monaural VCR, connect the yellow plug to (S) (the yellow jack) and the black plug to L (MONO) (the white jack).
- If you connect a VCR to the (ANT) (antenna) terminal, preset the signal output from the VCR to the program number 0 on the TV.
- If both (S) (S video input) and (1) (video input) at the rear of your TV are input at the same time, the (S) (S video input) is automatically selected. To view (1) (video input), disconnect the S video cable.
- When no signal is input to the connected video equipment, the TV screen becomes blue.

Step 2

Insert the batteries into the remote



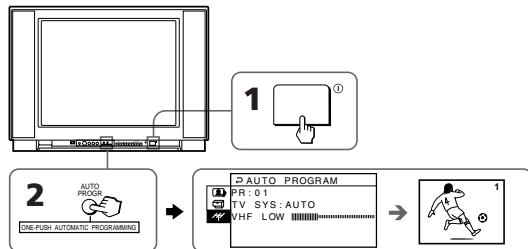
Note

- Do not use old batteries nor use different types of batteries together.

Step 3

Preset the channels automatically

Front of TV



Tips

- If you want to stop the automatic channel presetting, press MENU twice.
- If your TV has preset an unwanted channel or cannot preset a particular channel, then preset your TV manually (see page 26 and 27).

Now You Are Ready. . .

To preset the channels manually, see page 26 and 27.



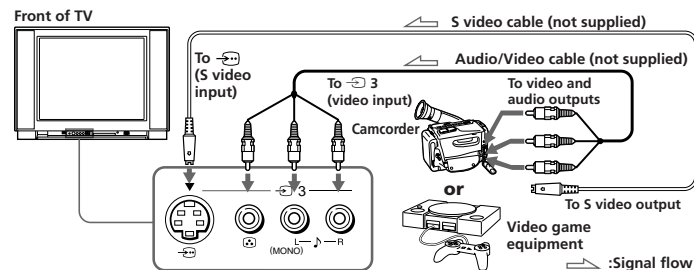
Using Your New TV

Connecting optional components

You can connect optional audio/video components, such as a VCR, multi disc player, camcorder, video game or stereo system.

To watch the picture of the connected equipment, press (S) (see page 10).

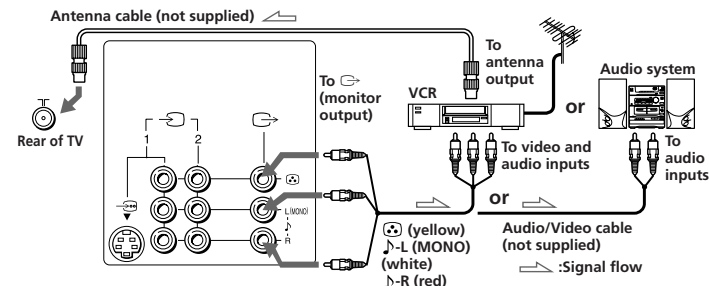
Connecting a camcorder/video game equipment using the (S) (video input) jacks



Notes

- You can also connect video equipment to the (1) or (2) (video input) jacks at the rear of your TV.
- If both (S) (S video input) and (3) (video input) at the front of your TV are input at the same time, the (S) (S video input) is automatically selected. To view (3) (video input), disconnect the S video cable.

Connecting audio/video equipment using the (MON) (monitor output) jacks



Note

- When connecting a monaural VCR, connect the yellow plug to (S) (the yellow jack) and the black plug to L (MONO) (the white jack).

Using Your New TV | 7

Using Your New TV | 5

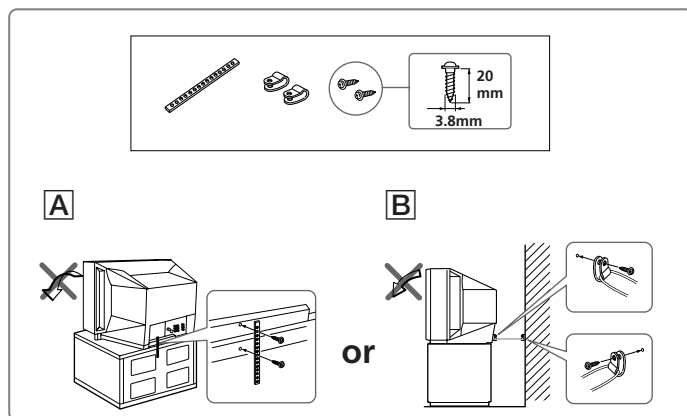
Securing the TV

To prevent the TV from falling, secure the TV using one of the following methods:

A With the supplied screws, attach the band to the TV stand and to the rear of the TV using the provided hole.

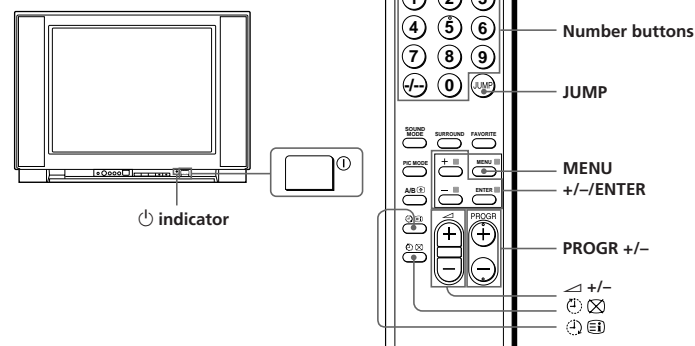
or

B Put the cord or chain through the clamps to secure the TV against a wall or pillar.



Watching the TV

This section explains functions used while watching TV. Most operations can be done using the remote.



Using Your New TV

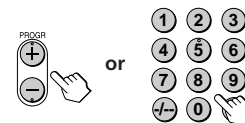
1 Press ① to turn on the TV.

When the TV is in the standby mode (the ① indicator on the TV is lit red), press ① on the remote or PROG +/- on the TV.



2 Press PROG +/- or number buttons to select the TV program.

For double digit numbers, press +/-, then the number (e.g., for 25, press +/-, then 2 and 5).



3 Press +/- to adjust the volume.



continued

Watching the TV (continued)

Additional tasks

To	Do this
Turn off temporarily	Press . The indicator on the TV lights up red.
Turn off completely	Press on the TV.
Mute the sound	Press .
Watch the video input (VCR, camcorder, etc.)	Press to select "VIDEO 1", "VIDEO 2" and "VIDEO 3". To return to the TV program, press .
Jump back to the previous channel	Press JUMP.
Display the on-screen information*	Press .

* The picture, sound, and either the program number or video mode are displayed. The on-screen display for the picture and sound information disappears after about 3 seconds.

Changing the menu language

You can change the menu language as well as the on-screen language. For details on how to use the menu, see "How to use the menu" on page 20.

- Press MENU. →
- Press + or - to select the SET UP icon (), then press ENTER. → →
- Make sure "LANGUAGE/ اللغة" is selected, then press ENTER. →
- Press + or - to select "عربي", then press ENTER. → →

To return to the normal screen

Press MENU.

Note (KV-XF34M31/XF34M50/XF34M80(E) only)

- You can change the menu language as well as the on-screen language between English and Chinese.

Setting the Wake Up timer

- Press until the desired period of time appears. → → →
- Select the TV program or video mode you want to display when you wake up.
- Press or set the Sleep timer if you want the TV to turn off automatically. The indicator on the TV lights up orange.

To cancel the Wake Up timer

Press until "WAKE UP TIMER: OFF" appears or turn off the TV's main power.

Notes

- The Wake Up timer starts immediately after the on-screen display disappears.
- If no buttons or controls are pressed for more than two hours after the TV is turned on using the Wake Up timer, the TV automatically goes into the standby mode. To continue watching the TV, press any button or control on the TV or the remote.

Setting the Sleep timer

- Press until the desired period of time appears. → → → →

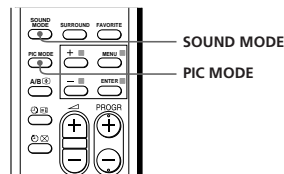
To cancel the Sleep timer

Press until "SLEEP TIMER: OFF" appears or turn the TV off.

Advanced Operations

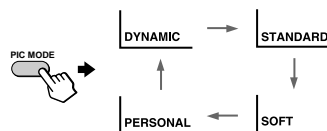
Selecting the picture and sound modes

You can select picture and sound modes and adjust the setting to your preference in PERSONAL option.



Selecting the picture mode

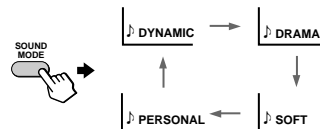
Press PIC MODE repeatedly until you get the desired picture mode.



Select	To
DYNAMIC	receive high contrast pictures.
STANDARD	receive normal contrast pictures.
SOFT	receive mild pictures.
PERSONAL	receive the last adjusted picture setting from the ADJUST option in the A/V CONTROL menu (see page 21).

Selecting the sound mode

Press SOUND MODE repeatedly until you get the desired sound mode.



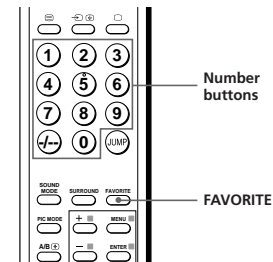
Select	To
DYNAMIC	listen to dynamic and clear sound that emphasizes the low and high tones.
DRAMA	listen to sound that emphasizes voice and high tones.
SOFT	receive soft sound.
PERSONAL	receive the last adjusted sound setting from the ADJUST option in the A/V CONTROL menu (see page 21).

Tip

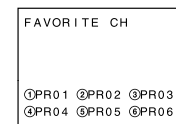
- You can also set the picture and sound modes using the menu (see "Changing the A/V CONTROL setting" on page 21).

Viewing your favorite channels

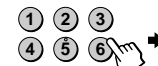
You can display and select six of your favorite channels directly from your TV screen.



1 Press FAVORITE.



2 Press the number button from 1 to 6 to select the desired channel.



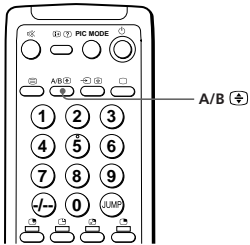
Tip

- To program your favorite channels, see "Programming your favorite channels" on page 23.

(For KV-XF34M31 only)

Selecting a stereo or bilingual program

You can enjoy stereo sound or bilingual programs of NICAM and A2 (German) stereo systems.



Press A/B repeatedly until you receive the sound you want.

The on-screen display changes to show the selected sound and the indicator on the TV lights up red.



When receiving a NICAM program

Broadcasting	On-screen display (Selected sound)
NICAM stereo	<div><div>NICAM (Stereo sound)</div><div>MONO (Regular sound)</div></div>
NICAM bilingual	<div><div>NICAM MAIN (Main sound)</div><div>NICAM SUB (Sub sound)</div><div>MONO (Regular sound)</div></div>
NICAM monaural	<div><div>NICAM MAIN (Main sound)</div><div>MONO (Regular sound)</div></div>

continued

Selecting a stereo or bilingual program (continued)

When receiving an A2 (German) program

Broadcasting	On-screen display (Selected sound)
A2 (German) stereo	<div><div>MONO (Regular sound)</div><div>STEREO (Stereo sound)</div></div>
A2 (German) bilingual	<div><div>MAIN (Main sound)</div><div>SUB (Sub sound)</div></div>

Receiving area for NICAM and A2 (German) programs

System	Receiving area
NICAM	Hong Kong, Singapore, New Zealand, Malaysia, Thailand, etc.
A2 (German)	Australia, Malaysia, Thailand, etc.

- Notes
- If the signal is very weak, the sound becomes monaural automatically.
 - If the stereo sound is noisy when receiving a NICAM program, select "MONO". The sound becomes monaural, but the noise is reduced.

If the sound is distorted or noisy when receiving a monaural program through the antenna terminal

Press A/B repeatedly until "MONO" appears on the screen.

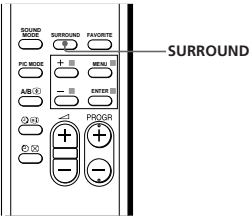
To cancel the monaural sound setting, press A/B again until "AUTO" appears on the screen.



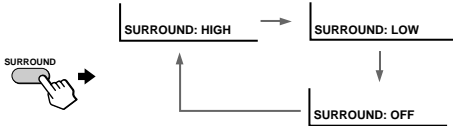
- Notes
- The "MONO" or "AUTO" setting is memorized for each program position.
 - You cannot receive stereo broadcast signal when the TV is in the "MONO" setting. Normally set the TV to "AUTO".

Listening with surround sound

The surround feature enables you to enjoy the sound effects of a concert hall or movie theater.



Press SURROUND repeatedly until you receive the desired surround sound.



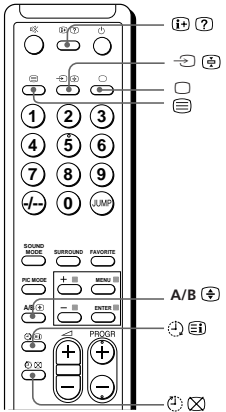
Select	To
HIGH	listen to sound that spreads out over a large area, giving the feeling of being at a concert hall.
LOW	listen to the sound that gives the feeling of being at a live concert.
OFF	turn off the surround sound.

The surround of your TV is categorized as TruSurround.

TruSurround™ is a trademark of SRS Labs, Inc. SRS and the SRS symbol are registered trademarks of SRS Labs, Inc. in the United States and selected foreign countries. SRS and TruSurround are incorporated under license from SRS Labs, Inc. and are protected under United States Patent Nos. 4,748,669 and 4,841,572 with numerous additional issued and pending foreign patents.

Viewing Teletext (KV-XF34M31 only)

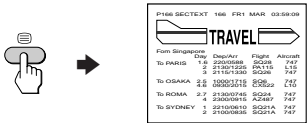
TV stations broadcast an information service called Teletext via some TV channels. Teletext allows you to receive various information, such as shares market or news.



Displaying Teletext

- 1 Select a TV channel that carries the Teletext broadcast you want to watch.
- 2 Press to display the text.

A Teletext page (normally the index page) is displayed. If there is no Teletext broadcast, "100" is displayed at the top left corner of the screen.




















To turn off Teletext

Press .

Viewing Teletext (continued)

Additional Teletext tasks

To	Do this
display a Teletext page on the TV picture	Press  . Each time you press  , the screen changes as follows: Teletext → Teletext and TV → TV.
check the contents of a Teletext service	Press   . An overview of the Teletext contents and page numbers appear on the screen.
select a Teletext page	Press the number buttons to enter the three-digit page number of the desired Teletext page.* If you make a mistake, reenter the correct page number. To access the next or previous page, press PROGR +/–.
hold a Teletext page (stop the page from scrolling)	Press   to display the symbol “  ” at the top left corner of the screen. To resume normal Teletext operation, press   or  .
reveal concealed information (e.g., an answer to a quiz)	Press   . To conceal the information, press the button again.
enlarge the Teletext display	Press A/B  . Each time you press A/B  , the Teletext display changes as follows: Enlarge upper half → Enlarge lower half → Normal size.
wait for a Teletext page while watching a TV program	1 Enter the Teletext page number that you want to refer to, then press   . 2 When the page number is displayed, press  to show the text.

* You can also select a Teletext page of any page number that appears in the colored column at the bottom of the screen using the corresponding color-coded button on the remote.

Using FASTEXT

This feature allows you to quickly access a Teletext page that uses FASTEXT. When a FASTEXT program is broadcasted, the colored menus appear at the bottom of the screen. The colors of the menus correspond to the red, green, yellow, and blue color-coded buttons on the remote.

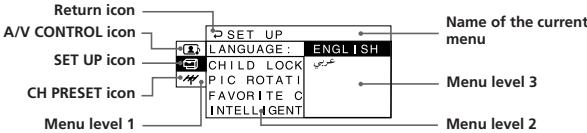
To access a FASTEXT menu




Press the color-coded button on the remote corresponding to the menu you want. The menu page appears on the screen after several seconds.

Adjusting Your Setup (MENU)

Introducing the menu system

The MENU button lets you open a menu and change the settings of your TV. Here's an overview of the menu system.

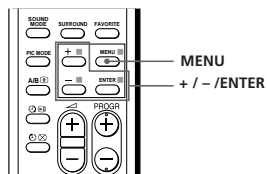


Level 1	Level 2	Level 3/Function
	PICTURE MODE	Select the picture mode. DYNAMIC → STANDARD → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. PICTURE → COLOR → BRIGHT → HUE → SHARP
	SOUND MODE	Select the sound mode. DYNAMIC → DRAMA → SOFT → PERSONAL → ADJUST
	ADJUST	Adjust the PERSONAL option. BASS → TREBLE → BALANCE → BBE*
	SURROUND	Select the surround mode. HIGH → LOW → OFF
	LANGUAGE	Change the menu language. ENGLISH · 中文 (Chinese) or 阿拉伯 (Arabic)
	CHILD LOCK	Lock the channel independently.
	PIC ROTATION	Adjust the picture position.
	FAVORITE CH	Program favorite channels.
	INTELLIGENT VOL	Adjust volume automatically.
	AUTO PROGRAM	Preset channels automatically.
	MANUAL PROGRAM	Preset channels manually.
	SKIP	Skip unwanted or unused program positions.
	TV SYS	Select the TV system. B/G → I → D/K → M
	COL SYS	Select the color system. AUTO → PAL → SECAM → NTSC3.58 → NTSC4.43

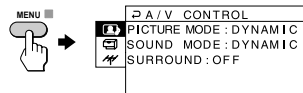
* The BBE is manufactured by Sony Corporation under license from BBE Sound, Inc. It is covered by U.S. Patent No. 4,638,258 and No. 4,482,866. The word “BBE” and the BBE symbol are the trademarks of BBE Sound, Inc.

How to use the menu

You can use the buttons on the remote and on the TV as well to display the menu and adjust the settings.



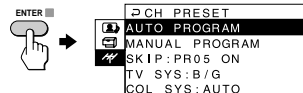
- 1 Press MENU to display the menu.



- 2 Press + or - to select the desired item.



- 3 Press ENTER to confirm your option and go to the next menu level.



Other menu operations

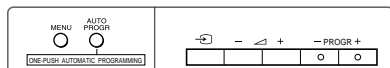
To	Press
Adjust the setting value	+/-
Return to the previous menu level*	ENTER
Cancel the menu	MENU

* To return from Menu Level 2 to Level 1, press + / - to select the return icon (↩), then press ENTER.

Tips

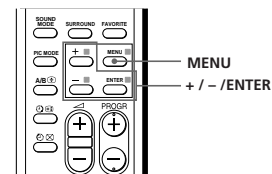
- If more than 60 seconds elapse between entries, the menu screen disappears.
- You can also use the buttons on the TV for menu operations. ◀ + / - work as + / - on the remote and ▶ works as ENTER on the remote.

Front of TV



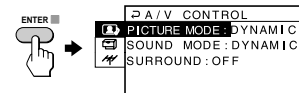
Changing the A/V CONTROL setting

The A/V CONTROL menu allows you to change the picture and sound settings.

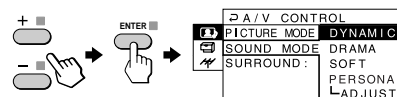


- 1 Press MENU.

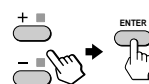
- 2 Make sure the A/V CONTROL icon (A/V) is selected, then press ENTER.



- 3 Press + or - to select either PICTURE MODE, SOUND MODE, or SURROUND, then press ENTER.



- 4 Press + or - to select the desired option, then press ENTER.



For	Select
PICTURE MODE	either DYNAMIC, STANDARD, SOFT, PERSONAL*, or ADJUST.
SOUND MODE	either DYNAMIC, DRAMA, SOFT, PERSONAL*, or ADJUST.
SURROUND	either HIGH, LOW, or OFF.

* When the PERSONAL mode is selected, the last adjusted picture and sound settings from the ADJUST option are received (see next page).

Tip

- For details on the options under "PICTURE MODE", "SOUND MODE" and "SURROUND", see page 12 and 14 respectively.


To return to the normal screen

Press MENU.

continued

Changing the A/V CONTROL setting (continued)

Adjusting the ADJUST options under PICTURE MODE

- Press + or – to select the desired item (e.g., COLOR), then press ENTER. 

- Adjust the value according to the following table, then press ENTER.

For	Press – to	Press + to
PICTURE	decrease picture contrast	increase picture contrast
COLOR	decrease color intensity	increase color intensity
BRIGHT	darken the picture	brighten the picture
HUE*	increase red picture tones	increase green picture tones
SHARP	soften the picture	sharpen the picture

* You can adjust HUE for the NTSC color system only.

- Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

Adjusting the ADJUST options under SOUND MODE

- Press + or – to select the desired item (e.g., BALANCE), then press ENTER. 

- Adjust the value according to the following table, then press ENTER.

For	Press – to	Press + to
BASS	decrease the bass	increase the bass
TREBLE	decrease the treble	increase the treble
BALANCE	increase the left speaker's volume	increase the right speaker's volume
BBE	select "HIGH" for higher enhancement of sound clarity; select "LOW" for lower enhancement of sound clarity; select "OFF" to turn off the BBE sound	

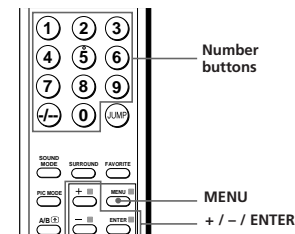
- Repeat the above steps to adjust other items.
The adjusted settings will be received when you select PERSONAL.

Tip

- For details on the menu system and how to use the menu, refer to "Introducing the menu system" on page 19 and "How to use the menu" on page 20.

Changing the SET UP setting

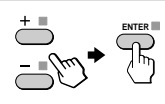
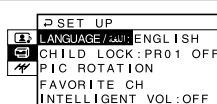
The SET UP menu allows you to change the menu language, lock channels, adjust the picture position, program your favorite channels and adjust volume automatically.

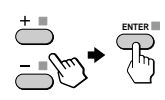
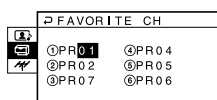


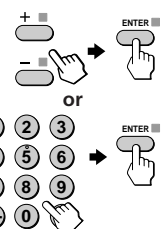
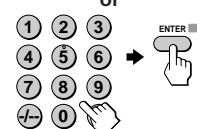
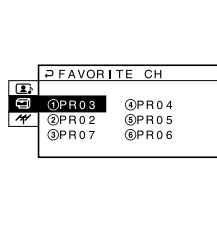
Programming your favorite channels

The FAVORITE CH feature enables you to program up to six channels for direct selection.

- Press MENU.

- Press + or – to select the SET UP icon (ⓘ), then press ENTER.  

- Press + or – to select FAVORITE CH, then press ENTER twice.  

- Press + or –, or number buttons to program the desired channel (e.g., PR03), then press ENTER.  or  

- To continue programming other favorite channels, press + or – and then press ENTER. After that, repeat step 4.

To return to the normal screen

Press MENU.

continued

Changing the SET UP setting (continued)**Using the CHILD LOCK feature**

You can prevent your children from watching certain programs by using the CHILD LOCK feature.

1 Press MENU.

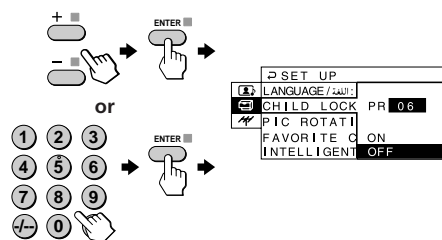
2 Press + or – to select the SET UP icon (Ⓔ), then press ENTER.



3 Press + or – to select CHILD LOCK, then press ENTER.



4 Press + or –, or number buttons to select the desired channel, then press ENTER.



5 Press + or – to select “ON”, then press ENTER.

The lock symbol (🔒) appears on the screen. To unlock the channel, select “OFF”.



6 To continue locking other channels, press ENTER and then repeat step 4 to 5.

To return to the normal screen

Press MENU.

Changing other SET UP menu options

1 Press MENU.

2 Press + or – to select the SET UP icon (Ⓔ), then press ENTER.



3 Press + or – to select the desired option (e.g., INTELLIGENT VOL), then press ENTER.



Select	To
LANGUAGE	Change the menu language (see “Changing the menu language” on page 10).
CHILD LOCK	Prevent children from watching certain programs (see “Using the CHILD LOCK feature” on page 24).
PIC ROTATION	Adjust the picture position when it is not aligned to the TV screen. Press + or – to adjust the picture position, then press ENTER.
FAVORITE CH	Program channels for direct selection (see “Programming your favorite channels” on page 23).
INTELLIGENT VOL	Adjust the volume of each TV program automatically. Press + or – to select “ON”, then press ENTER. To turn off the Intelligent Volume function, select “OFF”, then press ENTER.

To return to the normal screen.

Press MENU.

Note (KV-XF34M31/XF34M50/XF34M80(E) only)

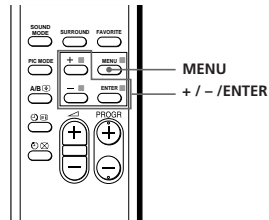
- You can change the menu language as well as the on-screen language between English and Chinese.

Tip

- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 19 and “How to use the menu” on page 20.

Changing the Channel Preset (CH PRESET) setting

The CH PRESET menu allows you to adjust the setup of your TV. For example, you can receive a channel with a weak signal that fails to be tuned in by automatic presetting.



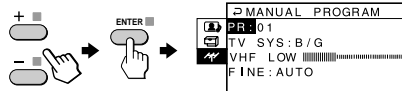
Presetting channels manually

1 Press MENU.

2 Press + or – to select the CH PRESET icon (⌘), then press ENTER.

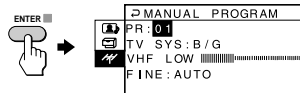


3 Press + or – to select MANUAL PROGRAM, then press ENTER.



4 Select the program number to which you want to preset a channel.

(1) Make sure “PR” is selected, then press ENTER.



(2) Press + or – until the program number you want to preset (e.g., program number 10) appears on the menu, then press ENTER.



5 Select the desired channel.

(1) Press + or – to select either VHF LOW, VHF HIGH or UHF, then press ENTER.

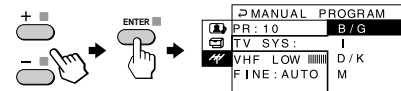


(2) Press + or – until the desired channel picture appears on the TV screen, then press ENTER.

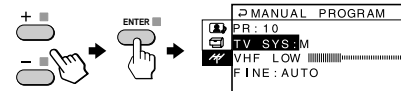


6 If the sound of the desired channel is abnormal, select the appropriate TV system.

(1) Press + or – to select TV SYS, then press ENTER.



(2) Press + or – until the sound becomes normal (e.g., M), then press ENTER.

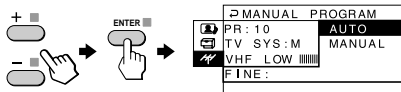


continued

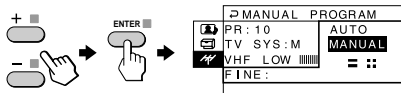
Changing the Channel Preset (CH PRESET) setting (continued)

7 If you are not satisfied with the picture and sound quality, you may improve them by using fine tuning.

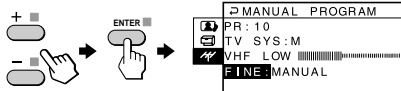
(1) Press + or – to select FINE, then press ENTER.



(2) Press + or – to select MANUAL, then press ENTER.



(3) Press + or – until the picture and sound quality are optimal, then press ENTER.



The + or – icon on the menu flashes while tuning.

To return to the normal screen

Press MENU.

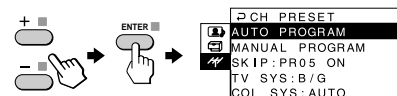
Note

- The TV system (TV SYS) and the fine tuning (FINE) settings are memorized for each program number.

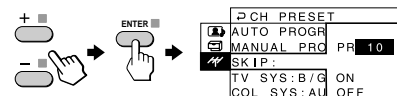
Changing other CH PRESET menu options

1 Press MENU.

2 Press + or – to select the CH PRESET icon (⚡), then press ENTER.



3 Press + or – to select the desired option (e.g., SKIP), then press ENTER.



Select	To
AUTO PROGRAM	preset channels automatically.
MANUAL PROGRAM	preset channels manually. See “Presetting channels manually” on page 26 and 27.
TV SYS	select the TV system. See “Presetting channels manually” on page 27.
COL SYS	select the color system. Normally, set this to “AUTO”.
SKIP	skip unwanted or unused program numbers. 1 Press + or – until the unused or unwanted program number appears, then press ENTER. 2 Press + or – to select “ON”, then press ENTER. To put the skipped program number back on, select “OFF”, then press ENTER.

Tip



- For details on the menu system and how to use the menu, refer to “Introducing the menu system” on page 19 and “How to use the menu” on page 20.

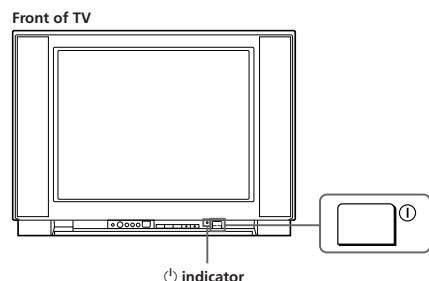
Note





- If you preset a locked channel, that particular channel will be unlocked automatically.

Additional Information

Self-diagnosis function

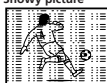





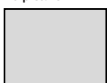



Your TV is equipped with a self-diagnosis function. If there is a problem with your TV, the  indicator flashes red. The number of times the  indicator flashes indicates the possible causes.



- 1** Check that the  indicator flashes red a number of times between 3-second intervals.
- 2** Count the number of times the  indicator flashes.
- 3** Press  (main power) to turn off your TV.
- 4** Inform your nearest Sony service center about the number of times the  indicator flashes. Be sure to note the model name and serial number located on the rear of your TV.

Troubleshooting


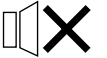




If you find any problem while viewing your TV, please check the following guide. If any problem persists, contact your Sony dealer .


Symptom	Solutions	Possible cause
Snowy picture 	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) Display the CH PRESET menu and select "MANUAL PROGRAM" to preset the channel again. (page 26) 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. Channel presetting is inappropriate or incomplete.
Noisy sound 	<ul style="list-style-type: none"> Check the antenna type (VHF/UHF). Contact a Sony dealer for advice. Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. 	<ul style="list-style-type: none"> The antenna type is inappropriate. The antenna direction is inappropriate. Signal transmission is low.
Distorted picture 	<ul style="list-style-type: none"> Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are too strong.
Noisy sound 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, display the CH PRESET menu and check the TV system (TV SYS) setting (page 27), then select "AUTO PROGRAM" to preset the channels again (page 29). If the sound of some channels are noisy, select the channel, then display the CH PRESET menu and select the appropriate TV system (TV SYS). (page 27) 	<ul style="list-style-type: none"> The TV system (TV SYS) setting or channel presetting is inappropriate or incomplete.
Good picture 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, display the CH PRESET menu and check the TV system (TV SYS) setting (page 27), then select "AUTO PROGRAM" to preset the channels again (page 29). If the sound of some channels are noisy, select the channel, then display the CH PRESET menu and select the appropriate TV system (TV SYS). (page 27) 	<ul style="list-style-type: none"> The TV system (TV SYS) setting or channel presetting is inappropriate or incomplete.
Noisy sound 	<ul style="list-style-type: none"> If the sound of all the channels are noisy, display the CH PRESET menu and check the TV system (TV SYS) setting (page 27), then select "AUTO PROGRAM" to preset the channels again (page 29). If the sound of some channels are noisy, select the channel, then display the CH PRESET menu and select the appropriate TV system (TV SYS). (page 27) 	<ul style="list-style-type: none"> The TV system (TV SYS) setting or channel presetting is inappropriate or incomplete.
No picture 	<ul style="list-style-type: none"> Check the power cord, antenna and the VCR connections. Press  (power). Press  (main power) on the TV to turn off the TV about five seconds, then turn it on again. 	<ul style="list-style-type: none"> The power cord, antenna or VCR is not connected. The TV is not turned on.
No sound 		

continued

Additional Information

Troubleshooting (continued)

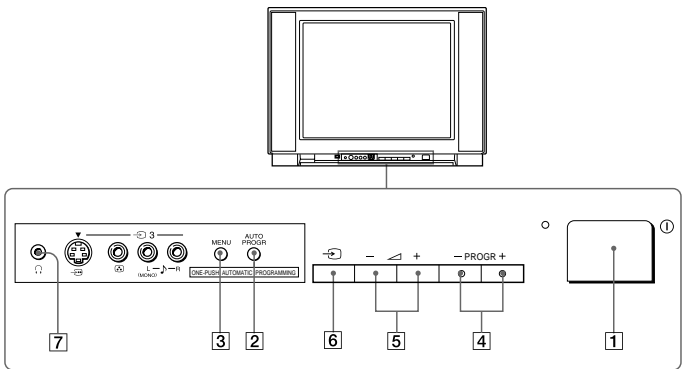
Symptom	Solutions	Possible cause
Good picture 	<ul style="list-style-type: none"> Press \triangle + to increase the volume level. Press M to cancel the muting. Press A/B E until a good sound is heard. (not for these models) 	<ul style="list-style-type: none"> The volume level is too low. The sound is muted. Broadcast signal has a transmission problem.
No sound 		
Dotted lines or stripes 	<ul style="list-style-type: none"> Do not use a hair dryer or other equipment near the TV. Adjust the antenna direction for minimum interference. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> There is local interference from cars, neon signs, hair dryers, power generators, etc.
Double images or "ghosts" 	<ul style="list-style-type: none"> Use a highly directional antenna. Use the fine tuning (FINE) function. (page 28) Adjust the antenna direction. Contact a Sony dealer for advice. Turn off or disconnect the booster if it is in use. 	<ul style="list-style-type: none"> Broadcast signals are reflected by nearby mountains or buildings. The antenna direction is inappropriate. Use of a booster is inappropriate.
No color 	<ul style="list-style-type: none"> Display the A/V CONTROL menu and select "ADJUST" of PICTURE MODE, then adjust the COLOR level. (page 21 and 22) Display the CH PRESET menu and check the color system (COL SYS) setting (usually set this to AUTO). (page 29) Adjust the antenna direction. Contact a Sony dealer for advice. 	<ul style="list-style-type: none"> The color level setting is too low. The color system setting is inappropriate. The antenna direction is inappropriate.
Abnormal color patches 	<ul style="list-style-type: none"> Keep external speakers or other electrical equipment away from the TV. Do not move the TV while the TV is turned on. Press O (main power) on the TV to turn off the TV for about five minutes, then turn it on again. 	<ul style="list-style-type: none"> There are magnetic effects from external speakers or other electrical equipment that may affect the TV. The direction of the earth's magnetic field may affect the TV.
TV cannot receive stereo broadcast signal. (not for these models)	<ul style="list-style-type: none"> Press A/B E until "AUTO" appears on the screen. 	<ul style="list-style-type: none"> The stereo reception setting is inappropriate.

Symptom	Solutions	Possible cause
Stereo broadcast sound switches on and off or is distorted. OR The sound switches between monaural and stereo frequently. (not for these models)	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) Adjust the antenna direction. Contact a Sony dealer for advice. Press A/B E until a good sound is heard. 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. The antenna direction is inappropriate. Broadcast signal has a transmission problem.
"100" appears on the top of the screen and no Teletext display. (KV-XF34M31 only)	—	<ul style="list-style-type: none"> The channel carries no Teletext broadcast.
Teletext display is incomplete (picture snowy or double images). (KV-XF34M31 only)	<ul style="list-style-type: none"> Check the antenna cable and connection on the TV, VCR and on the wall. (page 4) Adjust the antenna direction. Contact a Sony dealer for advice. Try using a booster. Use the fine tuning (FINE) function. (page 28) 	<ul style="list-style-type: none"> Connection is loose or the cable is damaged. The antenna direction is inappropriate. Signal transmission is too low.
Picture slant 	<ul style="list-style-type: none"> Display the SET UP menu and adjust "PIC ROTATION" so that the picture is aligned to the TV screen. (page 25) 	<ul style="list-style-type: none"> The terrestrial magnetism affects your TV set.
Lines moving across the TV screen.	<ul style="list-style-type: none"> Use the fine tuning (FINE) function. (page 28) 	<ul style="list-style-type: none"> The interference from external sources, e.g., heavy machineries, nearby broadcast station.
The O indicator on your TV flashes red a number of times between 3-second intervals.	<ul style="list-style-type: none"> Contact your nearest Sony service center. 	<ul style="list-style-type: none"> Your TV may need service.
TV cabinet creaks.	—	<ul style="list-style-type: none"> Changes in room temperature sometimes make the TV cabinet expand or contract, making a noise. This does not indicate a malfunction.
A "boom" sound is heard when the TV is turned on.	—	<ul style="list-style-type: none"> The TV's demagnetizing function is working. This does not indicate a malfunction.

Identifying parts and controls

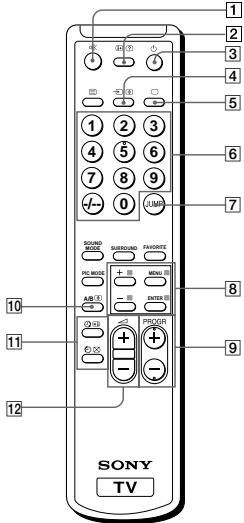
Refer to the pages indicated in parentheses () for details.

Front panel

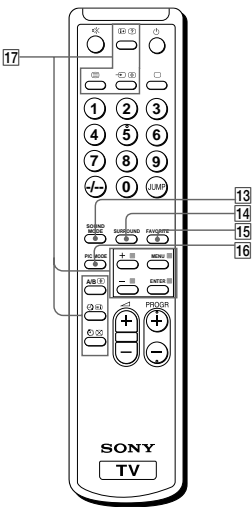


- 1 ① (main power) button (9)
- 2 AUTO PROGR (program) button (5)
- 3 MENU button (20)
- 4 PROGR +/- (program) buttons (9)
- 5 \triangle +/- (volume) buttons (9)
- 6 \rightarrow (TV/video) button (10)
- 7 \odot (headphone) jack

Remote Control



- 1 \otimes (muting) button (10)
- 2 Ⓔ (display) button (10)
- 3 ⏻ (power) button (9)
- 4 Ⓜ (video) button (10)
- 5 \square (TV) button (10)
- 6 Number buttons (9)
- 7 JUMP button (10)
- 8 Menu operation buttons (20)
MENU button
+ or - buttons
ENTER button
- 9 PROGR +/- button (9)
- 10 A/B button (15)
(KV-XF34M31 only)
- 11 Timer setting buttons (11)
 ⌚ (wake up timer)
 ⌚ (sleep timer)
- 12 \triangle (volume) +/- buttons (9)



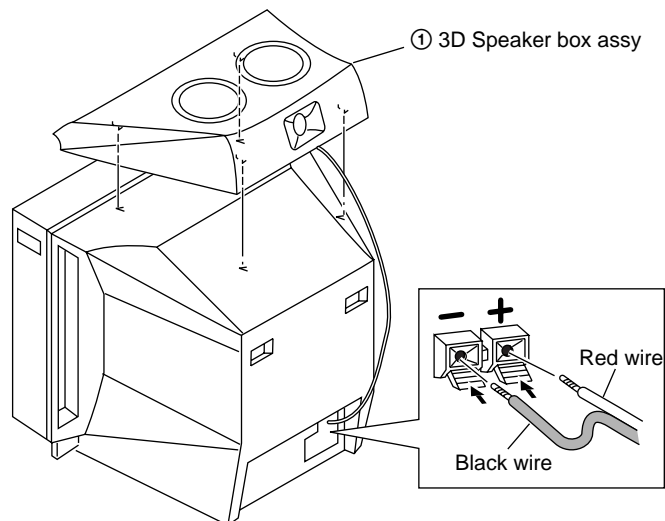
- 13 SOUND MODE button (12)
- 14 SURROUND button (14)
- 15 FAVORITE button (13)
- 16 PIC MODE button (12)
- 17 Teletext operation buttons (17, 18)
(KV-XF34M31 only)
 Ⓔ (text) Ⓢ (enlarge)
 Ⓢ (reveal) Ⓢ (hold)
 Ⓔ (index) Ⓢ (text clear)
 \blacksquare (FASTEXT: red, green, yellow, blue)

Names/symbols of buttons on the remote are indicated in different colors to represent the available functions.

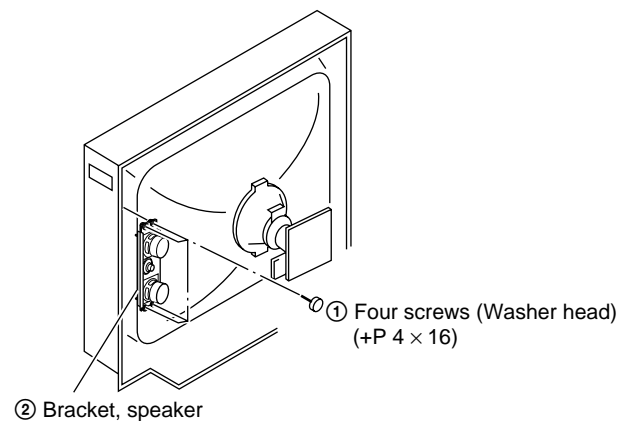
Label color	Button function
White	For general TV operations
Green	For Teletext operations

SECTION 2 DISASSEMBLY

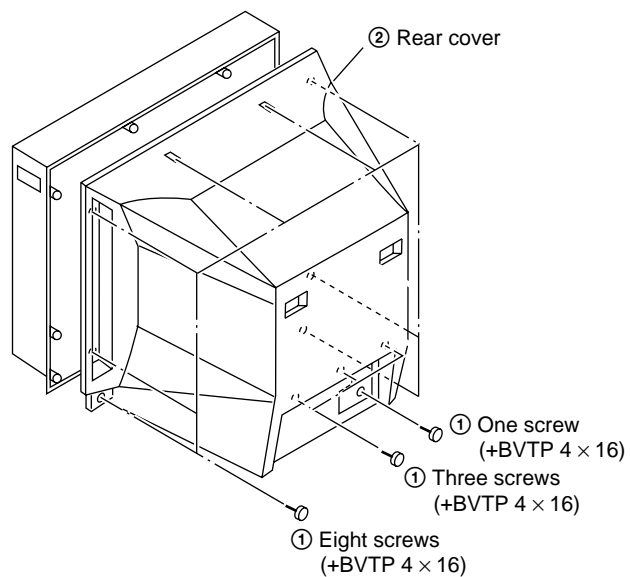
2-1. 3D SPEAKER BOX REMOVAL (KV-XF34M93 only)



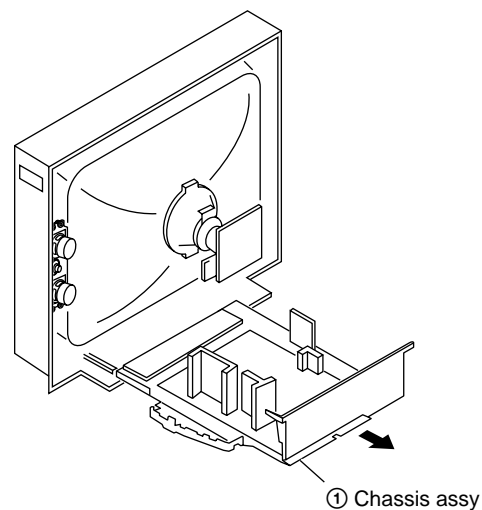
2-3. SPEAKER REMOVAL



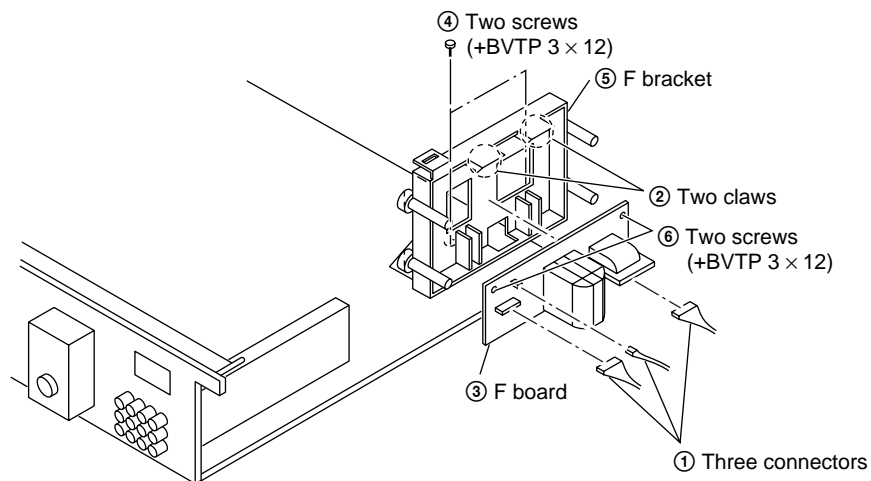
2-2. REAR COVER REMOVAL



2-4. CHASSIS ASSY REMOVAL

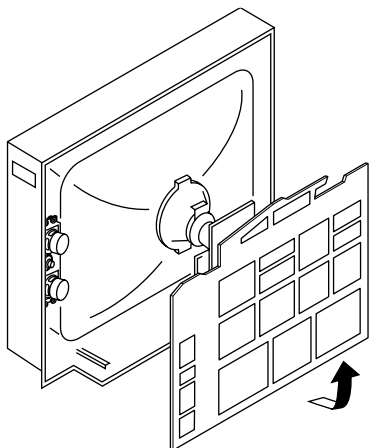


2-5. F BRACKET REMOVAL



2-6. SERVICE POSITION

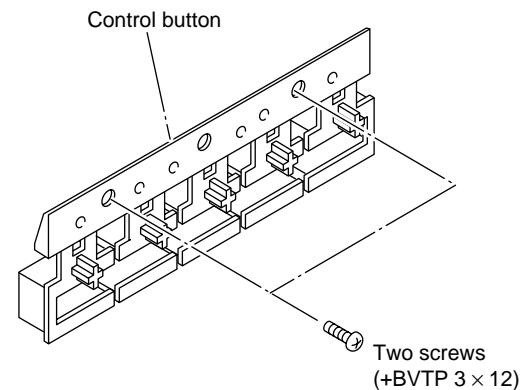
(Note: Remove F Bracket first.)



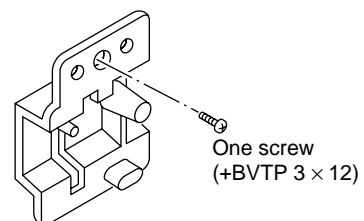
2-7. REPLACEMENT OF PARTS

For replacement of the Control Button and Light Guide, unscrew them, exchange with the new parts, and fix them with screws (+BVTP) respectively.

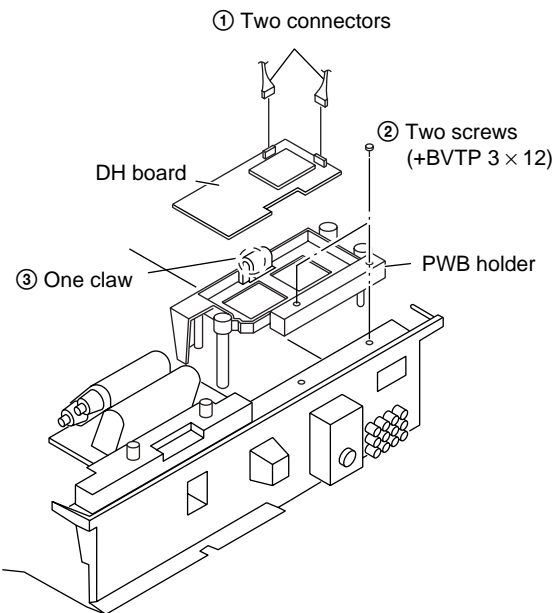
2-7-1. REPLACEMENT OF CONTROL BUTTON



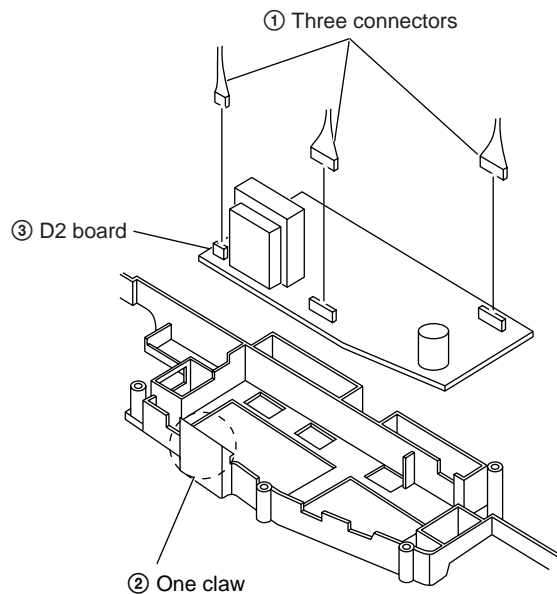
2-7-2. REPLACEMENT OF LIGHT GUIDE



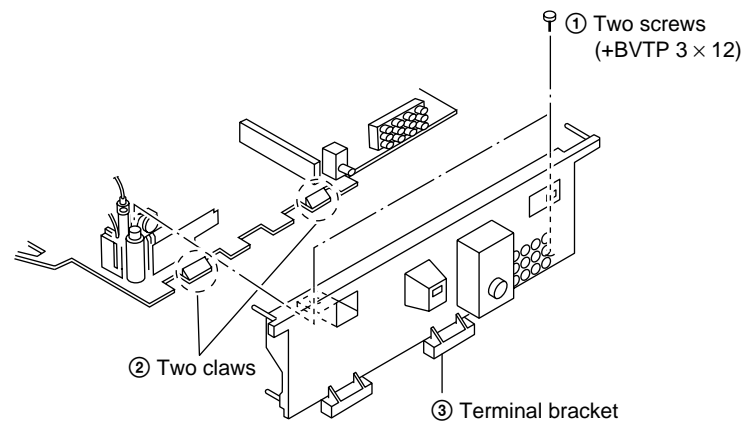
2-8. DH BOARD AND PWB HOLDER REMOVAL



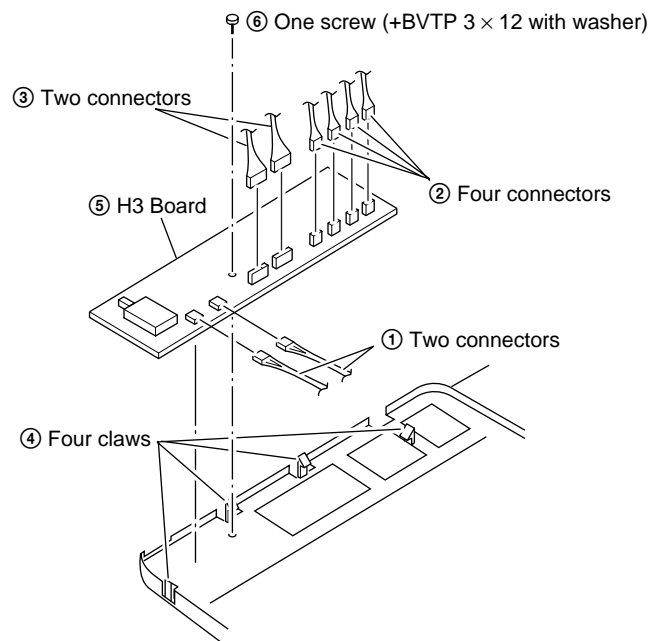
2-9. D2 BOARD REMOVAL



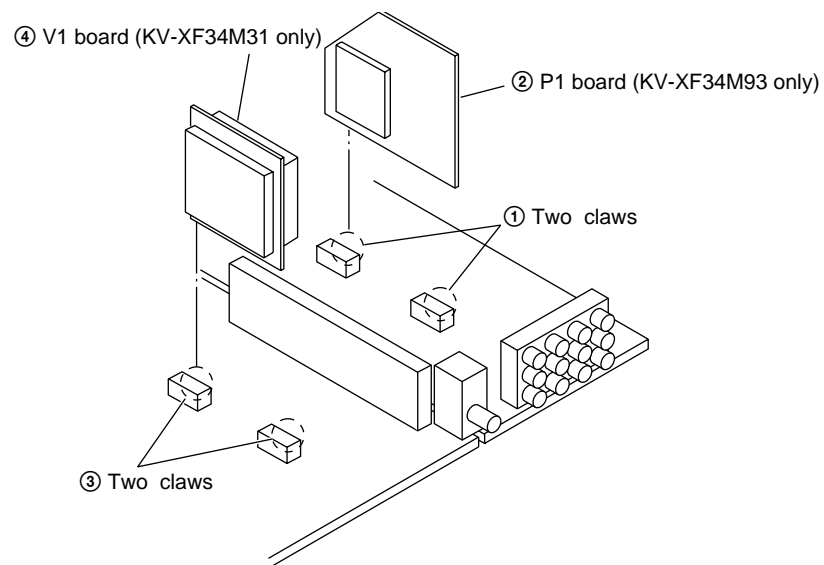
2-10. TERMINAL BRACKET REMOVAL



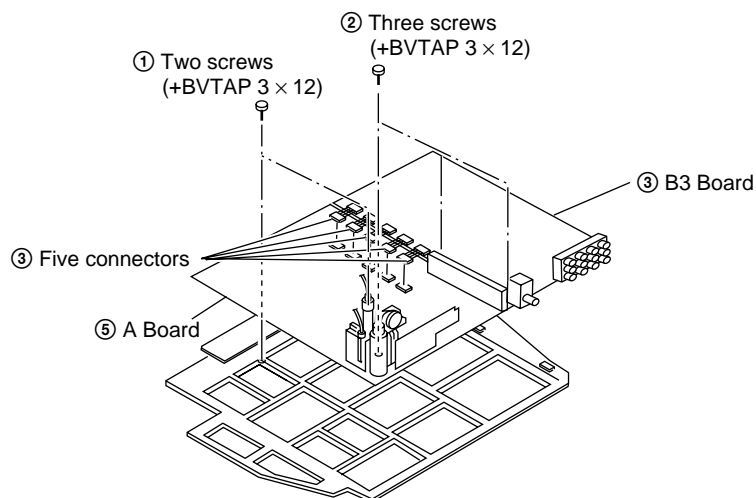
2-11. H3 BOARD REMOVAL



2-12. P1 AND V1 BOARDS REMOVAL

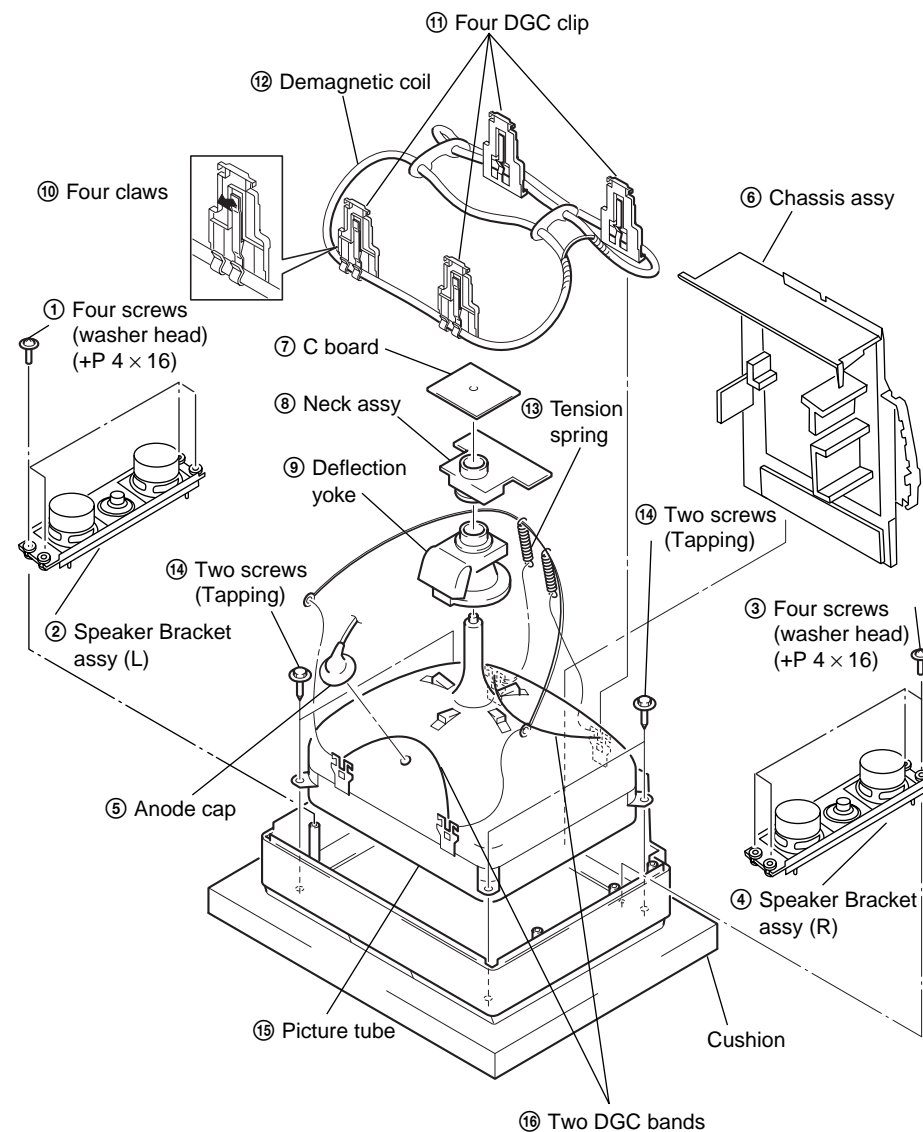


2-13. A AND B3 BOARDS REMOVAL



2-14. PICTURE TUBE REMOVAL

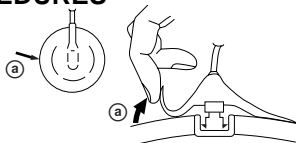
NOTE : The picture tube for OCE model is upside down, and the position for the anode cap and springs are changed accordingly.



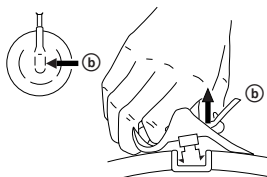
•REMOVAL OF ANODE-CAP

NOTE : After removing the anode, short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT shield or carbon paint on the CRT.

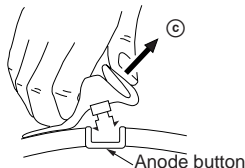
•REMOVING PROCEDURES



- ① Turn up one side of the rubber cap in the direction indicated by the arrow ①.



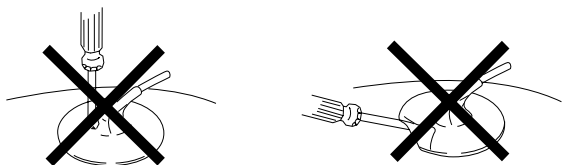
- ② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ②.



- ③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling it up in the direction of the arrow ③.

• HOW TO HANDLE AN ANODE-CAP

- ① Do not damage the surface of anode-caps with sharp shaped objects.
- ② Do not press the rubber too hard so as not to damage the inside of anode-cap. A metal fitting called the shatter-hook terminal is built into the rubber.
- ③ Do not turn the foot of rubber over too hard. The shatter-hook terminal will stick out or damage the rubber.



SECTION 3

SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control normal

BRIGHTNESS control normal

Preparation :

- In order to reduce the influence of geomagnetism on the set's picture tube, face it east or west.
- Switch on the set's power and degauss with the degausser.

3-1. BEAM LANDING

1. Input a white signal with the pattern generator.

Contrast	}	normal
Brightness		
2. Position neck assy as shown in Fig3-2.
3. Set the pattern generator raster signal to a green raster.
4. Move the deflection yoke to the rear and adjust with the purity control so that the green is at the center and the blue and the red take up equally sized areas on each side.
(See Figures 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that the entire screen is green. (See Figure 3-1.)
6. Switch the raster signal to blue, then to red and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws and DY spacers.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
(See Figure 3-4.)

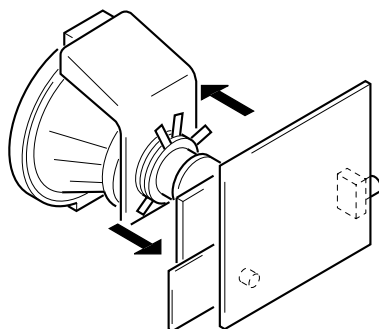


Fig. 3-1

Perform the adjustments in the following order :

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note : Test Equipment Required.

1. Color-bar/Pattern Generator
2. Degausser
3. Oscilloscope

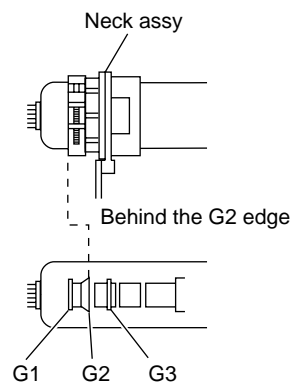


Fig. 3-2

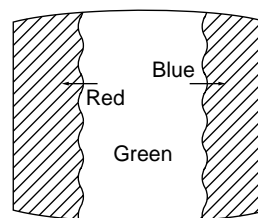


Fig. 3-3

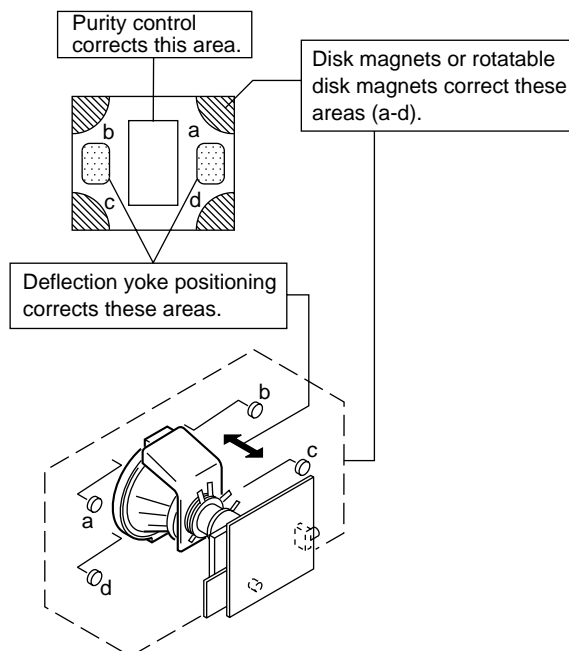


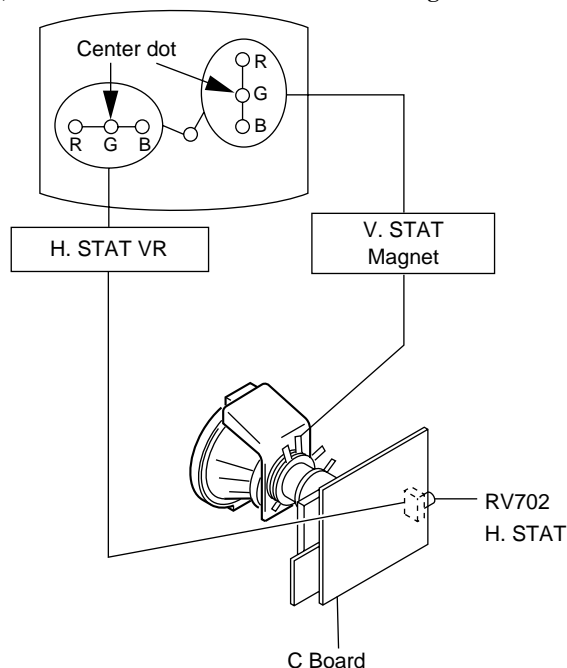
Fig. 3-4

3-2. CONVERGENCE

Preparation :

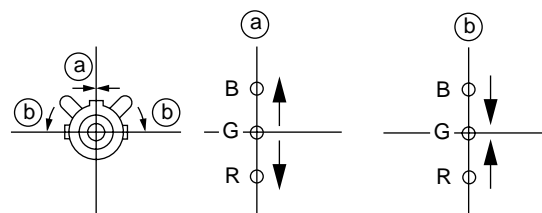
- Before starting this adjustment, adjust the focus, horizontal size and vertical size.
- Minimize the brightness setting.
- Provide dot pattern.

(1) Horizontal and Vertical Static Convergence

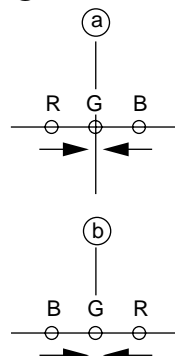


1. (Moving horizontally), adjust the H.STAT control so that the red, green and blue dots are on top of each other at the center of the screen.
2. (Moving vertically), adjust the V.STAT magnet so that the red, green and blue dots are on top of each other at the center of the screen.
3. If the H.STAT variable resistor cannot bring the red, green and blue dots together at the center of the screen, adjust the horizontal convergence with the H.STAT variable resistor and the V.STAT magnet in the manner given below.
(In this case, the H.STAT variable resistor and the V.STAT magnet influence each other, so be sure to perform adjustments while tracking.)

① V. STAT

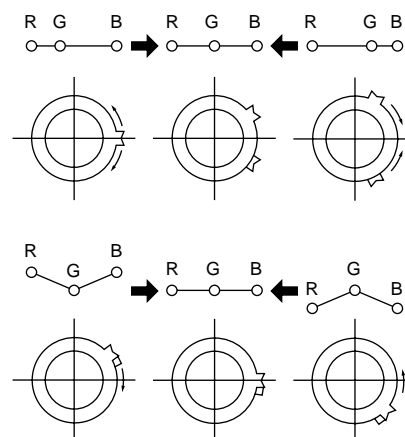


② H. STAT VR



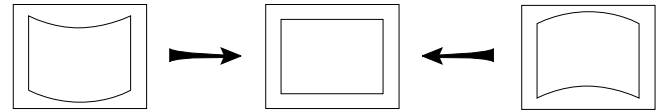
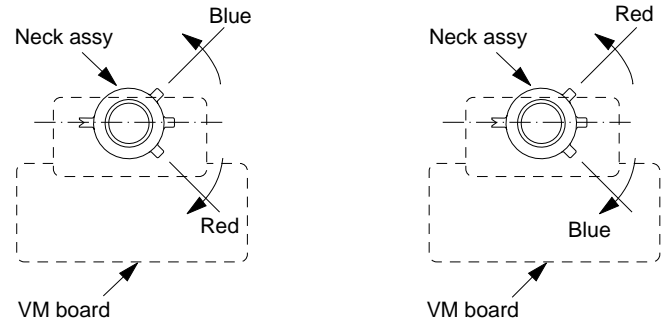
③ BMC (Hexapole) Magnet.

If the red, green and blue dots are not balanced or aligned, then use the BMC magnet to adjust in the manner described below.



④ Y separation axis correction magnet adjustment.

1. Receive the cross-hatch signal and adjust [PICTURE] to [MIN] and [BRIGHTNESS] to [STANDARD] .
2. Adjust the Y separation axis correction magnet on the neck assembly so that the horizontal lines at the top and bottom of the screen are straight.



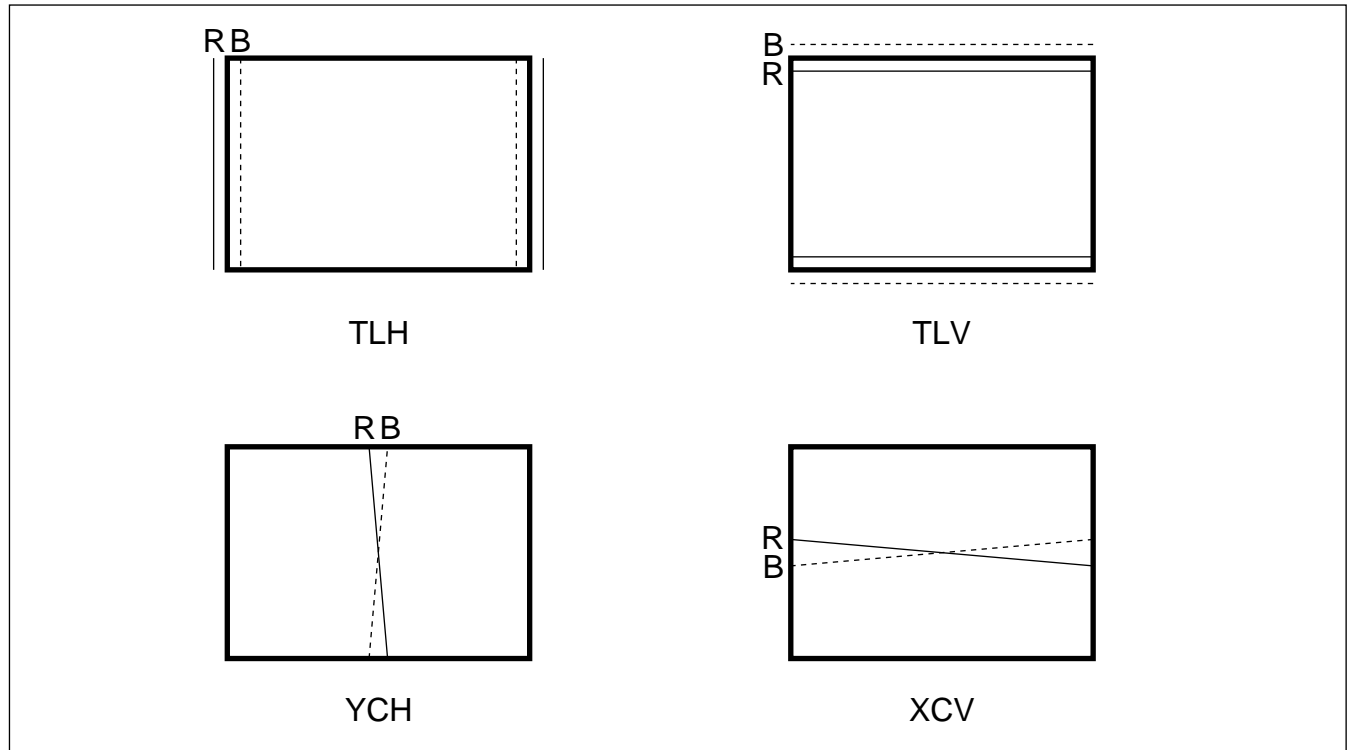
Note

1. The Red and Blue magnets should be equally far from the horizontal center line.
2. Do not separate the Red and Blue magnets too far. (Less than 8 mm)

(2) Dynamic Convergence Adjustment

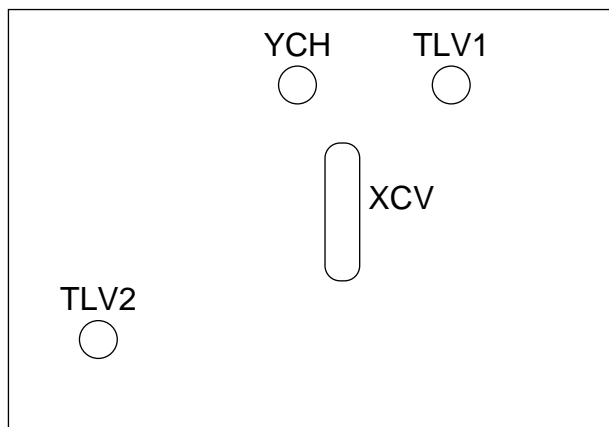
Preparation:

- Before starting this adjustment, adjust the horizontal static convergence and the vertical static convergence



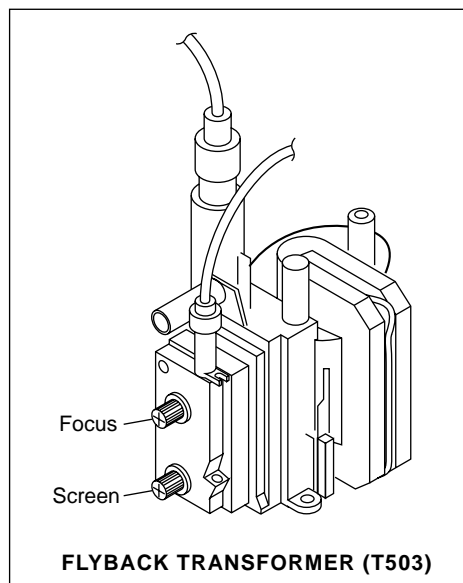
TLV	Rotate	TLV-2	VOL (29", 34") on DY
	Rotate	TLV	VOL (25") on DY
XCV	Rotate	XCV	Adj core on DY
YCH	Rotate	YCH	VOL on DY
TLH	Insert	TLH	Correction Plate to DY Pocket (Left or Right)

ON DY:

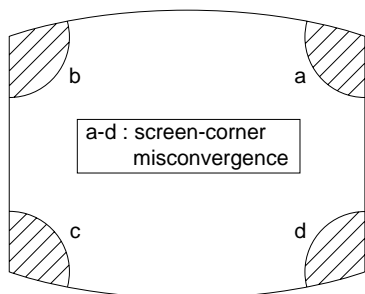


3-3. FOCUS ADJUSTMENT

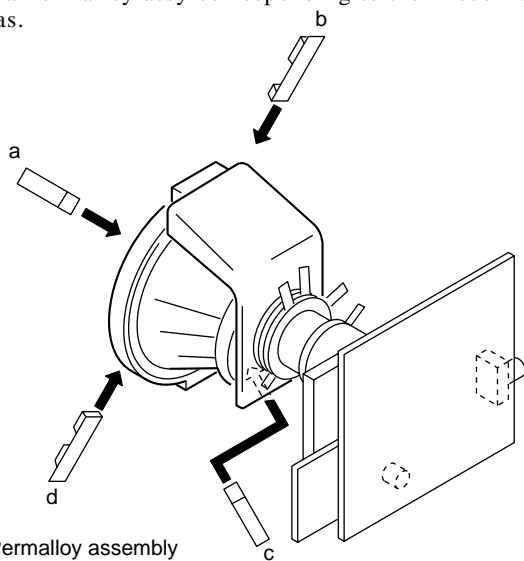
Adjust FOCUS control on the flyback transformer for the best focus.



(3) Screen-corner Convergence



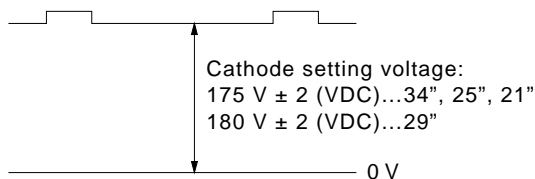
Fix a Permalloy assy corresponding to the misconverged areas.



3-4. G2 (SCREEN) AND WHITE BALANCE ADJUSTMENTS

1. G2 (SCREEN) ADJUSTMENT

- 1) Set the PICTURE and BRIGHTNESS to normal.
- 2) Put to VIDEO mode without signals.
- 3) Connect R, G and B of the C board cathode to the oscilloscope.
- 4) Adjust BRIGHTNESS to obtain the cathode voltage to the value below.
- 5) Adjust G2 (screen) on the FBT until picture shows the point before cut off.

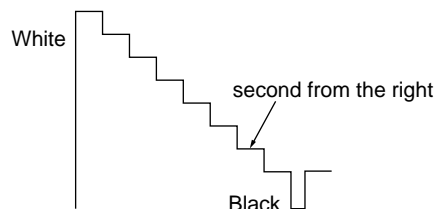


2. WHITE BALANCE ADJUSTMENT

- 1) Set to Service Mode (Refer Section 4-1: ADJUSTMENTS WITH COMMANDER).
- 2) Input white raster signal.
- 3) Set the PICTURE to minimum.
- 4) Select GCT (WHB 4) and BCT (WHB 5) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 5) Set the PICTURE to maximum.
- 6) Select GDR (WHB 1) and BDR (WHB 2) with [1] and [4], and adjust the level with [3] and [6] for the best white balance.
- 7) Write into the memory by pressing **MUTING** then [0].

3. SUB BRIGHT ADJUSTMENT

- 1) Set to service mode.
- 2) Input a staircase signal of black to white from the pattern generator.
- 3) BRIGHTNESS 50%.
PICTURE MINIMUM
- 4) Select SBR (WHB7) with [1] and [4], and adjust SBR (WHB7) level with [3] and [6] so that the second stripe from the right is dimly lit.

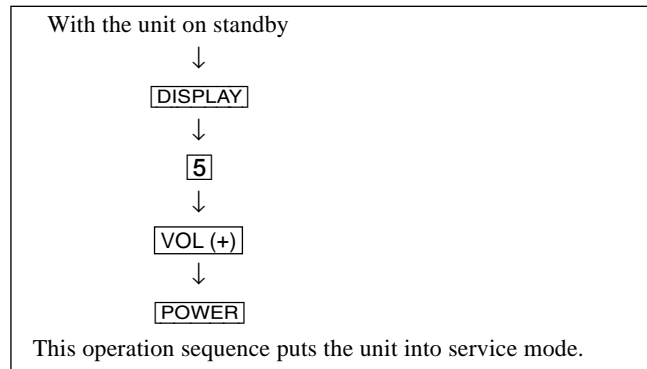


CIRCUIT ADJUSTMENTS

4-1. ADJUSTMENTS WITH COMMANDER

Service adjustments are made with the RM-953 (for KV-XF34M93) and RM-954 (except KV-XF34M93) that comes with this unit.

a. ENTERING SERVICE MODE



b. METHOD OF CANCELLATION FROM SERVICE MODE

Set the standby condition (Press **POWER** button on the commander), then press **POWER** button again, hereupon it becomes TV mode.

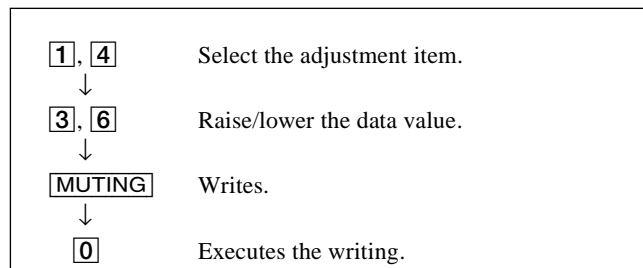
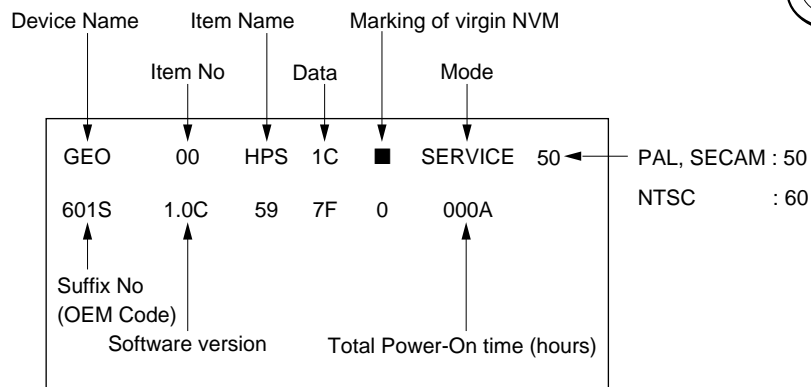
c. METHOD OF WRITE INTO MEMORY

- 1) Set to Service Mode.
- 2) Press **1** (UP) and **4** (DOWN), select an item of adjustment.
- 3) Press **MUTING** button and it will indicate WRITE on the screen.
- 4) Press **0** button to write into memory.

d. MEMORY WRITE CONFIRMATION METHOD

- 1) After adjustment, pull out the plug from AC outlet, and then plug into AC outlet again.
- 2) Turn the power switch ON and set to Service Mode.
- 3) Call the adjusted items again to confirm adjustments were made.

The screen display is :



7, 0

All the data becomes the values in memory.

8, 0

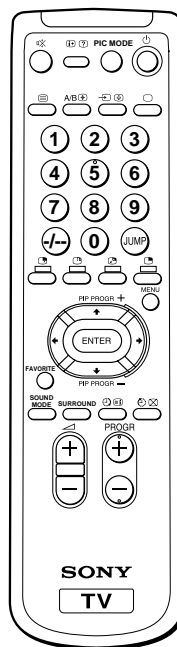
All user control goes to the standard state.

5, 0

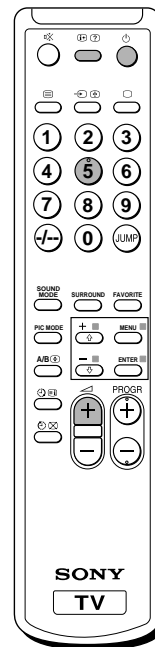
Service data initialization (Be sure not to use usually.)

2, 0

Write 50Hz adjustment data to 60Hz, or vice versa.



RM-953



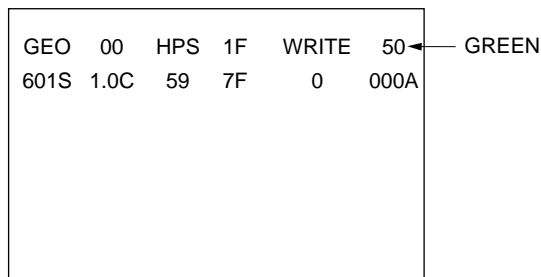
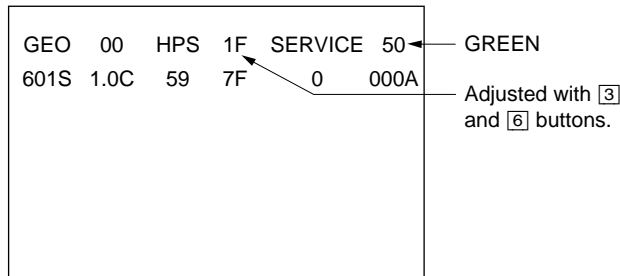
RM-954

4-2. ADJUSTMENT METHOD

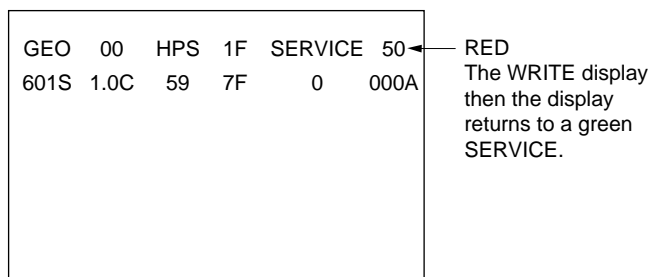
Item Number 00 of device GEO

This explanation uses H-Position as an example.

1. Select "GEO 00 HPS" with the **[1]** and **[4]** buttons.
2. Raise/lower the data with the **[3]** and **[6]** buttons.
3. Select the optimum state. (The standard is 1F for PAL reception.)
4. Write with the **[MUTING]** button. (The display changes to WRITE.)
5. Execute the writing with the **[0]** button. (The WRITE display will be changed to red color while excuting, and back to SERVICE.)



Written with **[MUTING]**



Write executed with **[0]**

Use the same method for all Items. Use **[1]** and **[4]** to select the adjustment item, use **[3]** and **[6]** to adjust, write with **[MUTING]**, then execute the write with **[0]**.

- Note :**
1. In **[WRITE]**, the data for all items are written into memory together.
 2. For adjustment items that have different standard data between 50Hz or 60Hz, be sure to use the respective input signal after adjustment.

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
	No	Name							
GEO	0	HPS	7	3F	H Position	50/60HZ	12 (7-2)	CXA2130S(88H)	96 (7-2)
	1	HSZ	1F	3F	H Size	50/60HZ	11 (7-2)		95 (7-2)
	2	PAP	1F	3F	Pin Amp	50/60HZ	13 (7-2)		97 (7-2)
	3	TLT	7	0F	Trapezium	50/60HZ	15 (7-4)		99 (7-4)
	4	VPS	1F	3F	V Position	50/60HZ	0F (7-2)		93 (7-2)
	5	VSZ	1F	3F	V Size	50/60HZ	0E (7-2)		92 (7-2)
	6	SCO	7	0F	S Correction	50/60HZ	10 (7-4)		94 (7-4)
	7	VLN	7	0F	V Linearity	50/60HZ	10 (3-0)		94 (3-0)
	8	BOW	7	0F	AFC Bow	50/60HZ	16 (7-4)		9A (7-4)
	9	AGL	7	0F	AFC-Angle	50/60HZ	16 (3-0)		9A (3-0)
	0A	UPN	1F	3F	Upper Pin	50/60HZ	14 (7-2)		98 (7-2)
	0B	LPN	2F	3F	Lower Pin	50/60HZ	18 (7-2)		9C (7-2)
	0C	HBL	1	1	H Blanking on/off		18 (1)		6C (1)
	0D	LBL	7	0F	Left H Blanking	50/60HZ	17 (7-4)		9B (7-4)
	0E	RBL	7	0F	Right H Blanking	50/60HZ	17 (3-0)		9B (3-0)
WHB	0	RDR	1F	3F	R Drive	DYNAMIC/other	09 (7-2)	CXA2130S(88H)	A3 (7-2)
	1	GDR	1F	3F	G Drive	DYNAMIC/other	0A (7-2)		A4 (7-2)
	2	BDR	1F	3F	B Drive	DYNAMIC/other	0B (7-2)		A5 (7-2)
	3	RCT	7	0F	R Cutoff	SECAM/other	07 (3-0)		A7 (3-0)
	4	GCT	7	0F	G Cutoff	SECAM/other	08 (7-4)		A8 (3-0)
	5	BCT	7	0F	B Cutoff	SECAM/other	08 (3-0)		A8 (3-0)
	6	BMN	15	1F	Brightness Minimum Data		06 (7-2)		106
SAJ	7	SBR	1F	3F	Sub Brightness Control		06 (7-2)		107
	0	PMX	33	3F	Picture Maximum Data		03 (7-2)	CXA2130S(88H)	105
	1	SHU	8	0F	Sub Hue Control	TV/Video	05 (7-2)		108
	2	SSH	8	0F	Sub Sharpness Control	TV/Video	07 (7-4)		109
	3	SCL	1F	3F	Sub Color Control	NTSC/others	04 (7-2)		10A
VP	0	EHT	4	0F	EHT Comp	50/60HZ	15 (3-0)	CXA2130S(88H)	99 (3-0)
	1	GMA	2	03	Gamma Correction	NTSC/others	0B (1-0)		25B (1-0)
	2	YDL	6	0F	Y Delay	PAL/SECAM/NTSC	0C (3-0)		A0 (3-0)
	3	SST	1	03	SECAM ID Start Position		1B (1-0)		6F (1-0)
	4	SSP	1	03	SECAM ID Stop Position		1B (3-2)		6F (3-2)
	5	SLV	2	03	SECAM ID Level		1C (1-0)		70 (1-0)
	6	SBF	22	3F	SECAM BELL fO		1C (7-2)		70 (7-2)
	7	DYC	1	1	Dynamic Color on/off		0A (1)		5E (1)
	8	ABL	1	1	ABL Mode Switching (except STANDARD mode)		09 (1)		5D (1)
	9	VTH	1	1	ABL Detection Vth Switching		09 (0)		5D (0)
	0A	SFO	1	1	FO Switching for Sharpness	NTSC/others	05 (1)		24A (1)
	0B	DCX	1	1	DC Trans. Ratio Switching		06 (1)		5A (1)
	0C	SHT	1	1	Pre-/Overshoot ratio Switch	NTSC/others	06 (0)		24A (0)

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
	No	Name							
VP	0D	HDW	0	1	H Drive Pulse Width Switch	TV/Video	00 (6)		54 (6)
	0E	AFC	1	03	AFC Gain Control		0F (1-0)		A1 (1-0)
	0F	HOS	7	0F	H Oscillation		0C (7-4)		60 (7-4)
	10	HSS	0	1	Slice Level of H Sync Sep.	50/60Hz	0D (1)		61 (1)
	11	VSS	0	1	Slice Level of V Sync Sep.		0D (0)		61 (0)
	12	HMS	1	1	Macro Vision C/m off/on		0E (0)		92 (0)
	13	YUV	0	1	YUV Switch Control	Video only not memorized	01 (0)		55 (0)
	14	CDV	1	3	CD mode for Video		0D (5-4)		259 (5-4)
	15	RON	1	1	R ON		01 (3)		55 (3)
	16	GON	1	1	G ON		01 (2)		55 (2)
	17	BON	1	1	B ON		01 (1)		55 (1)
	18	PON	1	1	P ON		00 (7)		54 (7)
	19	BLK	0	1	BLK Off		12 (0)		66 (0)
	1A	VMC	0	1	VM Off		13 (0)		67 (0)
AP	0	BCS	1	3	Bass Center Shift		#4 (3-0)	TDA7315(80H)	24C (1-0)
	1	TCS	1	3	Treble Center Shift		#5 (3-0)		24D (1-0)
	2	TRF	2	3	RF Treble Offset		#5 (3-0)		24E (1-0)
MSP	0	WST	15	FF	W/G Stereo Threshold	TEMPORARY		MSP3415D(84H)	165
	1	WBT	EC	FF	W/G Bilingual Threshold				166
	2	WLL	5	FF	W/G Monaural Threshold				167
	3	WAC	1	0F	W/G Agreement Count				168
	4	WDL	30	FF	W/G Search Delay				169
	5	NDL	20	FF	NICAM Search Delay				16A
	6	SDL	10	FF	Stereo status Read Delay				16B
	7	AGC	1	1	AGC Switch Auto/Constant		00BB (7)		116 (7)
	8	REL	28	3F	AGC Gain at Constant Mode		00BB (6-1)		116 (6-1)
	9	CRM	0	1	Carrier muting on/off		00BB (9)		115 (9)
	0A	ACO	1	1	Audio Clock out on/off		0083 (5)		11A (5)
	0B	FP	1B	7F	FM Prescale for non-M system		000E (14-8)		221
	0C	FPM	32	7F	FM Prescale for M system		000E (14-8)		222
	0D	FH	36	7F	FM Prescale for HDEV		000E (14-8)		223
	0E	FHM	65	7F	FM Prescale for HDEV and M		000E (14-8)		224
	0F	WGP	2A	7F	W/G Prescale		000E (14-8)		225
	10	NIP	6D	7F	NICAM Prescale		0010 (14-8)		14F
	11	ERR	50	FF	Auto FM switch Threshold		0021 (10-3)		174
	12	VOL	6D	FF	Loud Speaker gain 07xx0		0000 (11-4)		254

Adjustment Item Table

Device Name	Functionality		Note	Data Range	Function	Note for Different Data	Register No. (bit)	Slava Address	RAM Address (bit)
	No	Name							
SVP	0	SBF	22	3F	SECAM BELL f0		1C (7-2)	CXA2060AS(8AH)	85 (7-2)
	1	HOS	7	0F	H Oscillation		0C (7-4)		80 (7-4)
	2	SHU	8	0F	Sub Hue Control		05 (7-2)		210
	3	SCL	1F	3F	Sub Color Control		04 (7-2)		211
PIP	0	SDL	02	0F	Delay of output SELECT		01 (6-3)	SDA9288X(D6H)	1A0 (6-3)
	1	PPH	15	FF	H Position of TOP-LEFT Pin P		01/02		1AF
	2	PPV	2E	FF	V Position of TOP-LEFT Pin P		03 (7-0)		1B0
	3	YDL	0	07	Delay of Luminance Input		04 (2-0)		1A3 (2-0)
	4	HDI	00	0F	H Sync Delay for Inset		06 (3-0)		1A5 (3-0)
	5	ISC	01	1	Inset Clock Selection		06 (4)		1A5 (4)
	6	CLP	1	1	Clamp Pulse Selection		06 (5)		1A5 (5)
	7	CLC	0	1	Clamp Cycle Selection		06 (6)		1A5 (6)
	8	CON	00	0F	Contrast Adjustment for inset		09 (7-4)		1A8 (7-4)
	9	PLL	2	03	H Position For A-ch		0D (6-5)		1AC (6-5)
	0A	PDV	0	0F	PIP V Pedestal Level		0E (7-4)		1AD (7-4)
	0B	PDU	0	0F	PIP U Pedestal Level		0E (3-0)		1AD (3-0)
TXT	0	TXH	1	3	Teletext Horizontal Position		10 (1-0)	SAA5261(58H)	248 (1-0)
	1	TXV	0	3	Teletext Vertical Position		10 (6-4)		248 (5-4)
OPM	0	OSH	0A	3F	OSD H Position	Option-Misc	1F1	CXP86461(60H)	18D (7-2)
	1	COM	1	03	Comb Selection				23F (7-6)
	2	APC	1	1	APC Switch				23E (5)
	3	TSY	0	03	TV Sys at Auto TV Sys				23E (4-3)
	4	MUT	0	1	No Signal Mute				23E (0)
	5	AFM	1	1	Auto FM switch				23E (1)
	6	RFB	0	3	C-BPF Control				23F (5-4)
	7	TVO	0	7	Tilt to V-Angle offset				23F (2-0)
OPB	0	OP1	FF	FF	Optional Bits 1 (see below)	Option-Bits		CXP86461(60H)	48
	1	OP2	E3	FF	Optional Bits 2 (see below)				49
	2	OP3	0	FF	Optional Bits 3 (see below)				4A

NOTE

- ■ shaded items are fixed data.
- Standard data listed on the Adjustment Item Table are reference values, therefore it may be different for each model and for each mode.
- Note for Different Data Those are the standard data values written on the microprocessor. Therefore, the data values of the modes and stored respectively in the memory.
In case of a device replacement, adjustment by rewriting the data value is necessary for some items.

ITEM INFORMATION.

No. OPB0 OP1

Item	XTAL 4.43	XTAL 3.58	SECAM	2nd. Lang	B/G	I	D/K	M
KV-XF34M31	1	1	1	1	1	1	1	1
KV-XF34M50	1	1	1	1	1	1	1	1
KV-XF34M80(E)	1	1	1	1	1	1	1	1
KV-XF34M80(ME)	1	1	1	1	1	1	1	1
KV-XF34M93	1	1	1	1	1	1	1	1

No. OPB1 OP2

Item	TOP	NICAM	HDEV	Thai Bil	–	DVD Input	AV Input	
KV-XF34M31	1	1	1	0	0	0	1	1
KV-XF34M50	0	0	1	0	0	0	1	1
KV-XF34M80(E)	0	0	1	0	0	0	1	1
KV-XF34M80(ME)	0	0	1	0	0	0	1	1
KV-XF34M93	0	1	1	0	0	0	1	1

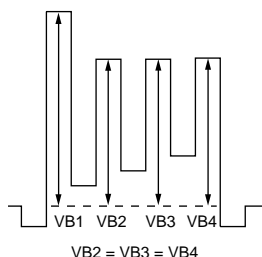
No. OPB2 OP3

Item	–	–	Auto PIC	Auto TV sys	US ST	Arabic	11 KEY	Chinese
KV-XF34M31	0	0	0	1	0	0	1	1
KV-XF34M50	0	0	0	1	0	0	1	1
KV-XF34M80(E)	0	0	0	1	0	0	1	1
KV-XF34M80(ME)	0	0	0	1	0	1	1	0
KV-XF34M93	0	0	1	1	0	0	1	1

4-3. PICTURE QUALITY ADJUSTMENTS

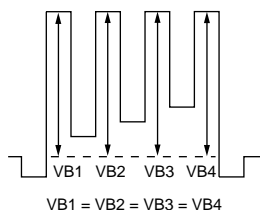
SUB COLOR ADJUSTMENT

1. Input a PAL color-bar.
2. Set to the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
3. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
4. Set to Service Mode and select SAJ 4 'SCL' with [1] and [4] of the commander then adjust to VB2=VB3=VB4 with [3] and [6].
5. Press [MUTING] → [0] of the commander to write the data.
6. Adjust SAJ 4 'SCL' as step 2 to 5 when receiving NTSC color-bar.



SUB HUE ADJUSTMENT

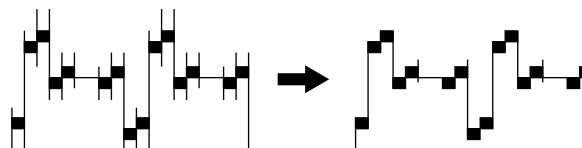
1. Select Video 1.
2. Input a NTSC color-bar, video into Video 1.
3. Set the following condition:
PICTURE 100%, BRIGHTNESS 50%, COLOR 50%
4. Connect an oscilloscope to pin ① (B OUT) of CN305, A board.
5. Select SAJ 2 'SHU' with [1] and [4] of the commander by setting to Service Mode and adjust to VB1=VB2=VB3=VB4 with [3] and [6].



6. Press [MUTING] → [0] of the commander to write the data.

BELL FILTER ADJUSTMENT

1. Input SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to CN303 pin ⑨ (not mounted).
3. Adjust SERVICE MODE, ITEMS 'SBF' as shown below.



4-4. DISPLAY POSITION ADJUSTMENT (KV-XF34M93 ONLY)

PIP POSITION

1. Input a PAL color-bar.
2. Press PIP button of the remote commander to set the PIP picture.
3. Set to Service Mode.
4. Use [1] and [4] of the remote commander to select PIP 1 "PIP" and use [3] and [6] to set data "14".
5. Select PIP 2 "PPV" to set data "27".
6. Press [MUTING] → [0] of the remote commander to write the data.
7. Use the screen display menu changing the PIP position to check the PIP position.

4-5. A BOARD ADJUSTMENT AFTER IC003 (MEMORY) REPLACEMENT

When replacing IC003 (MEMORY), be sure to change IC001 (μ-COM) to the following new IC at the same time.

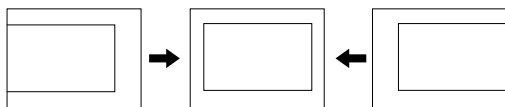
IC001(μ-CON): CXP86461-608S (Except KV-XF34M80(ME))
CXP86461-609S (KV-XF34M80(ME))

1. Enter to Service Mode.
2. Press commander buttons [5] and [0] (Data Initialize), and [2] and [0] (Data Copy) to initialize the data.
3. Call each item number and check if the respective screen shows the normal picture.
In cases where items are not well adjusted, rectify the items with fine adjustment.
Write the data per each item number ([MUTING] + [0]).
4. Select item numbers "OPB0" (OP1), "OPB1" (OP2) and "OPB2" (OP3) and respectively set the bit per model with command buttons [3] and [6].
5. Press commander buttons [8] and [0] (Test Normal) to return to the data that was set on the shipment from the factory.
(This will also cancel Service Mode.)

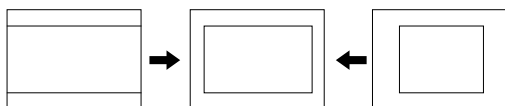
4-6. PICTURE DISTORTION ADJUSTMENT (1)

Item Number 00 – 0B

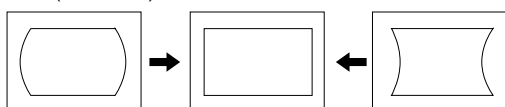
GEO 0 HPS (H POSITION)



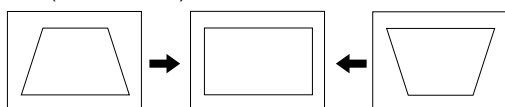
GEO 1 HSZ (H SIZE)



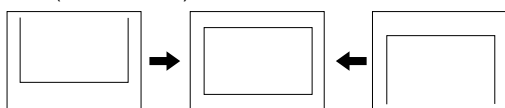
GEO 2 PAP (PIN AMP)



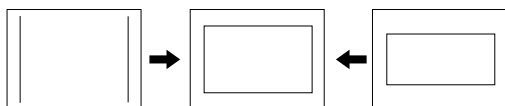
GEO 3 TLT (TRAPEZIUM)



GEO 4 VPS (V POSITION)



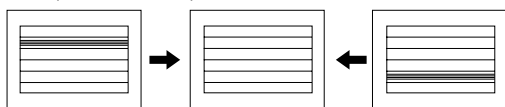
GEO 5 VSZ (V SIZE)



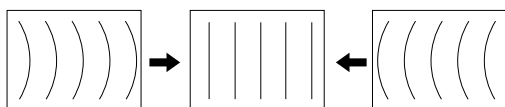
GEO 6 SCO (VERTICAL S-Correction)



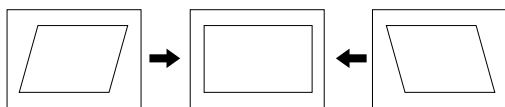
GEO 7 VLN (V LINEARITY)



GEO 8 BOW (AFC.BOW)

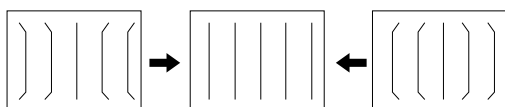


GEO 9 AGL (AFC.ANGLE)

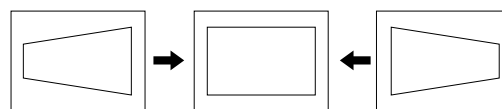


GEO 0A UCP (UPPER CORNER PIN)

GEO 0B LCP (LOWER CORNER PIN)

**PICTURE DISTORTION ADJUSTMENT (2)**

H-TRAPEZOID (Rotate RV1801)



MEMO

SECTION 5
DIAGRAMS

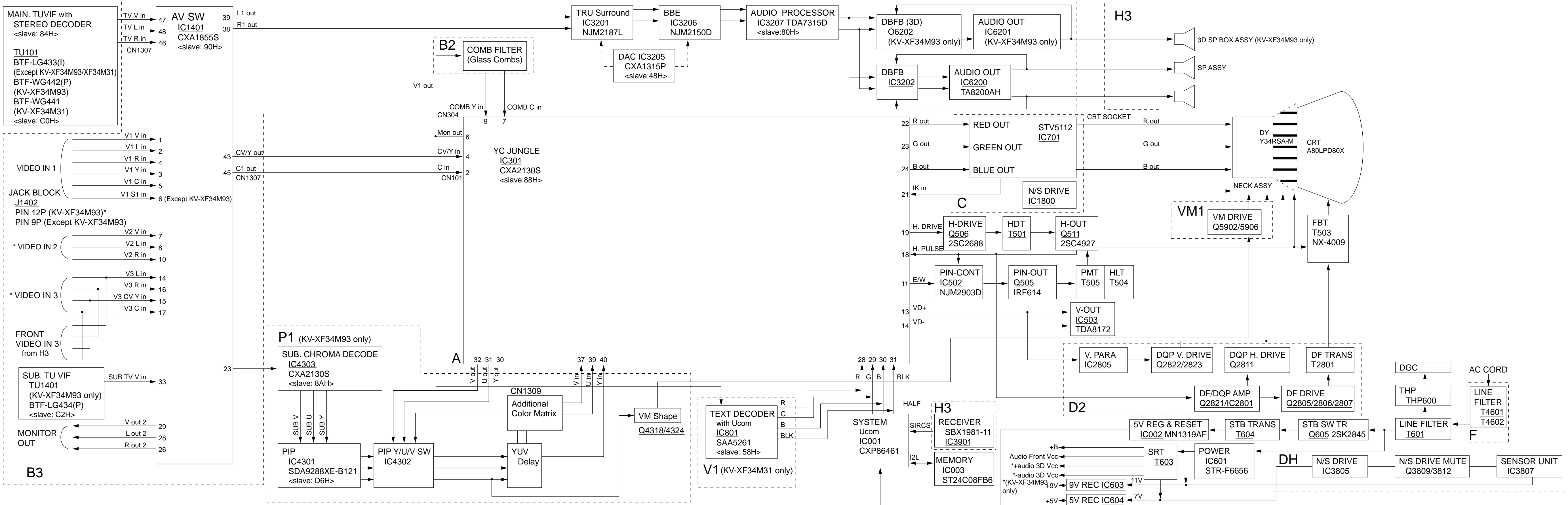
KV-XF34M31/XF34M50/XF34M80/XF34M93
RM-954 RM-954 RM-954 RM-953

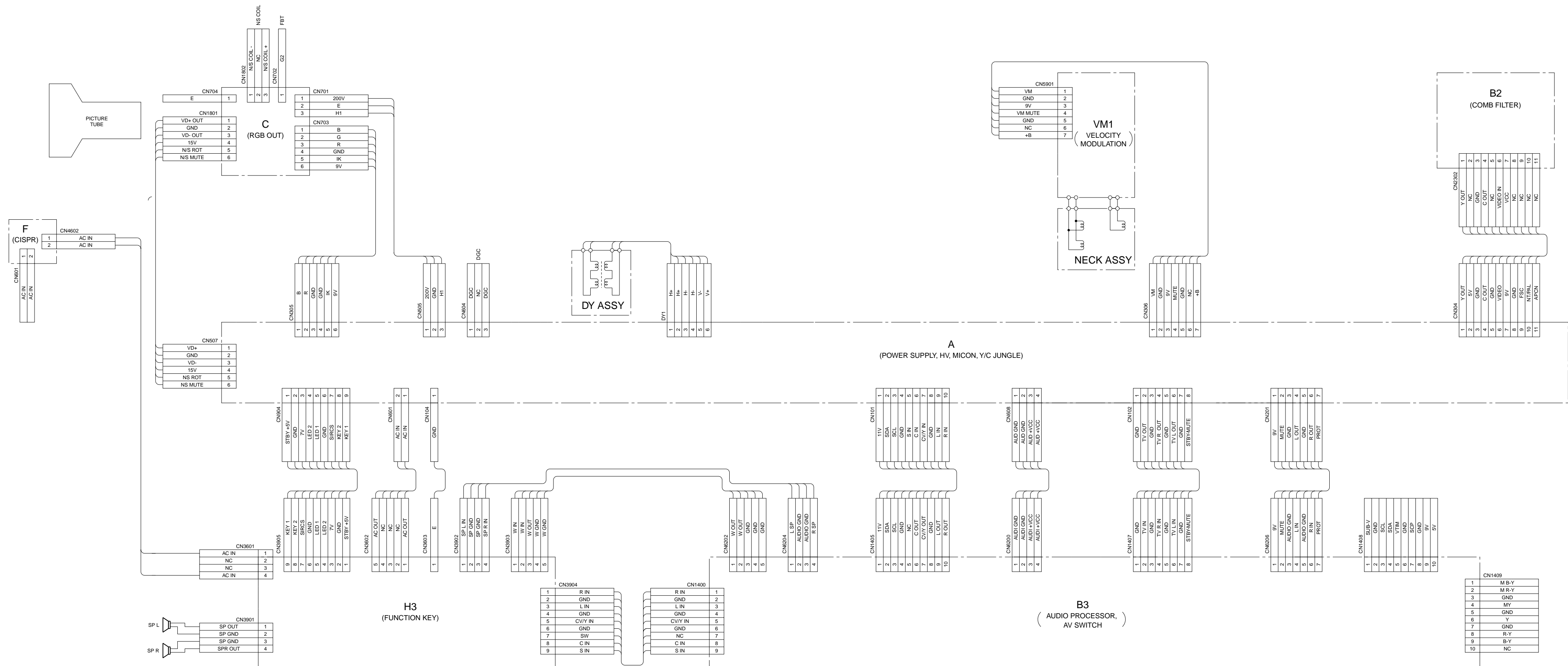
KV-XF34M31/XF34M50/XF34M80/XF34M93
RM-954 RM-954 RM-954 RM-953

KV-XF34M31/XF34M50/XF34M80/XF34M93
RM-954 RM-954 RM-954 RM-953

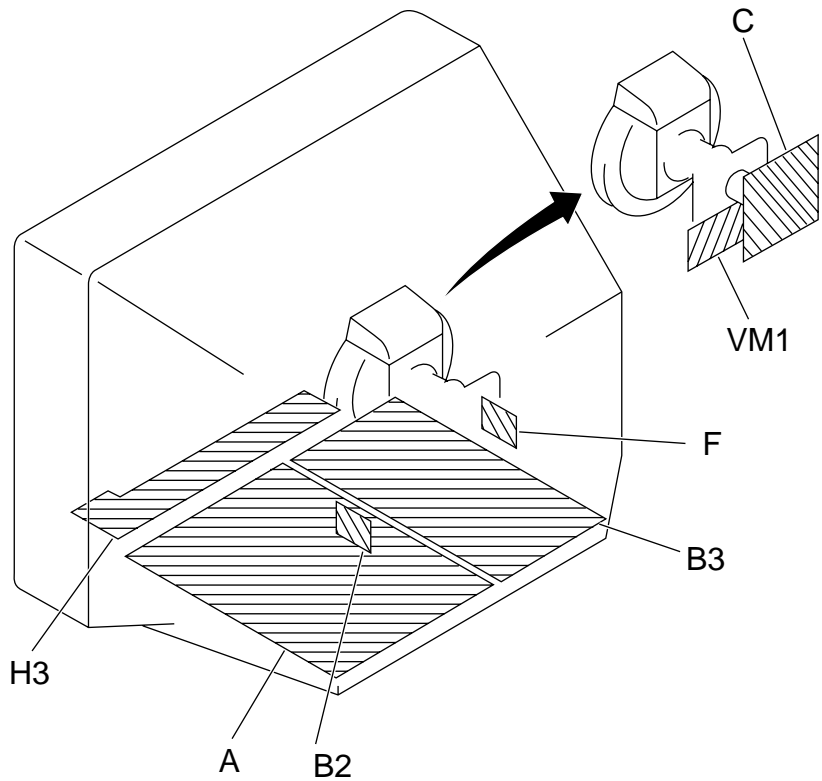
KV-XF34M31/XF34M50/XF34M80/XF34M93
RM-954 RM-954 RM-954 RM-953

5-1. BLOCK DIAGRAM





5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

- Note:**
- All capacitors are in μF unless otherwise noted.
 - All electrolytic capacitors are rated at 50V unless otherwise noted.
 - All resistors are in ohms.
 $\text{k}\Omega = 1000\Omega$, $\text{M}\Omega = 1000\text{k}\Omega$
 - Indication of resistance which does not have rating electrical power is as follows.
- Pitch: 5 mm
Rating electrical power 1/4W (CHIP: 1/10W)

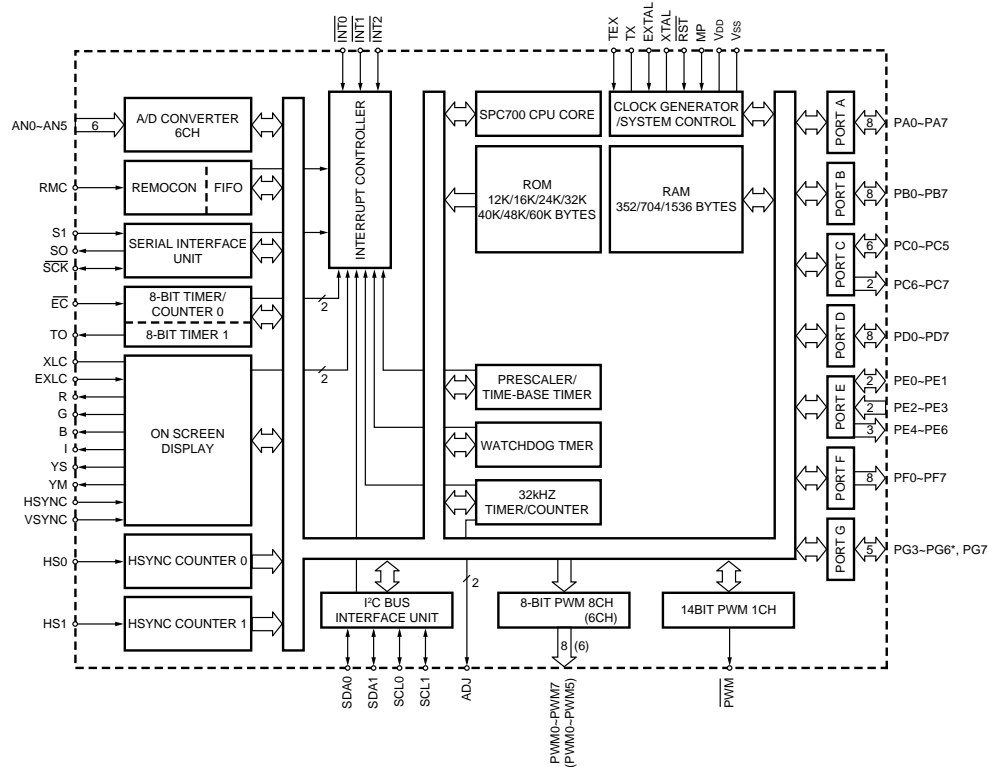
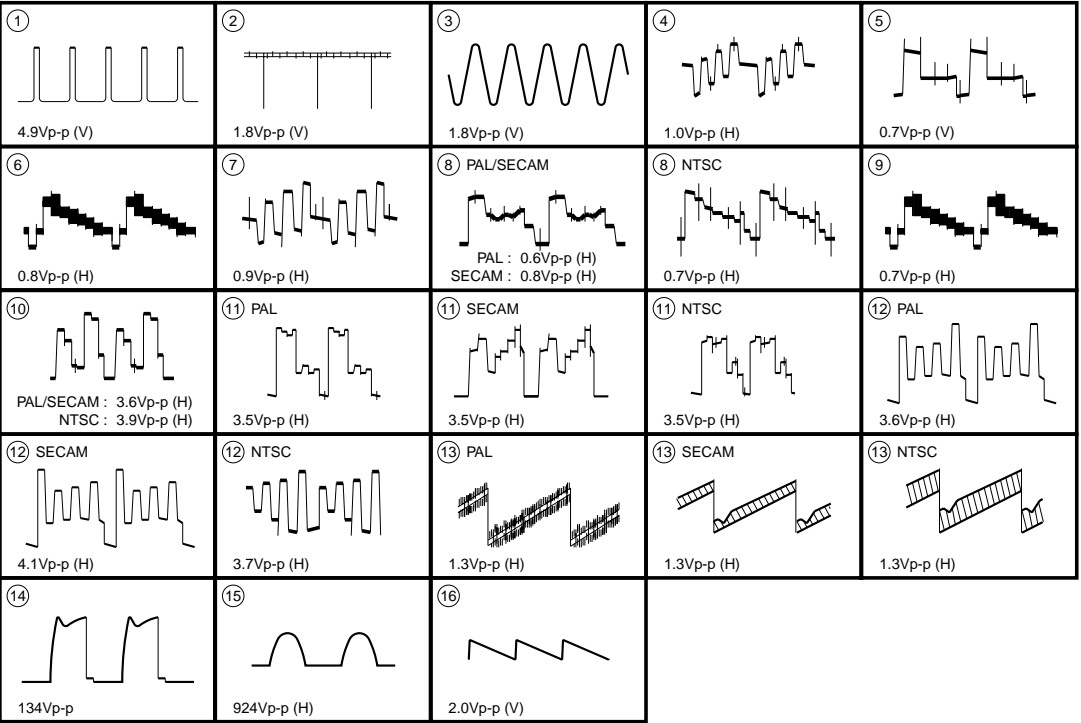
: nonflammable resistor.

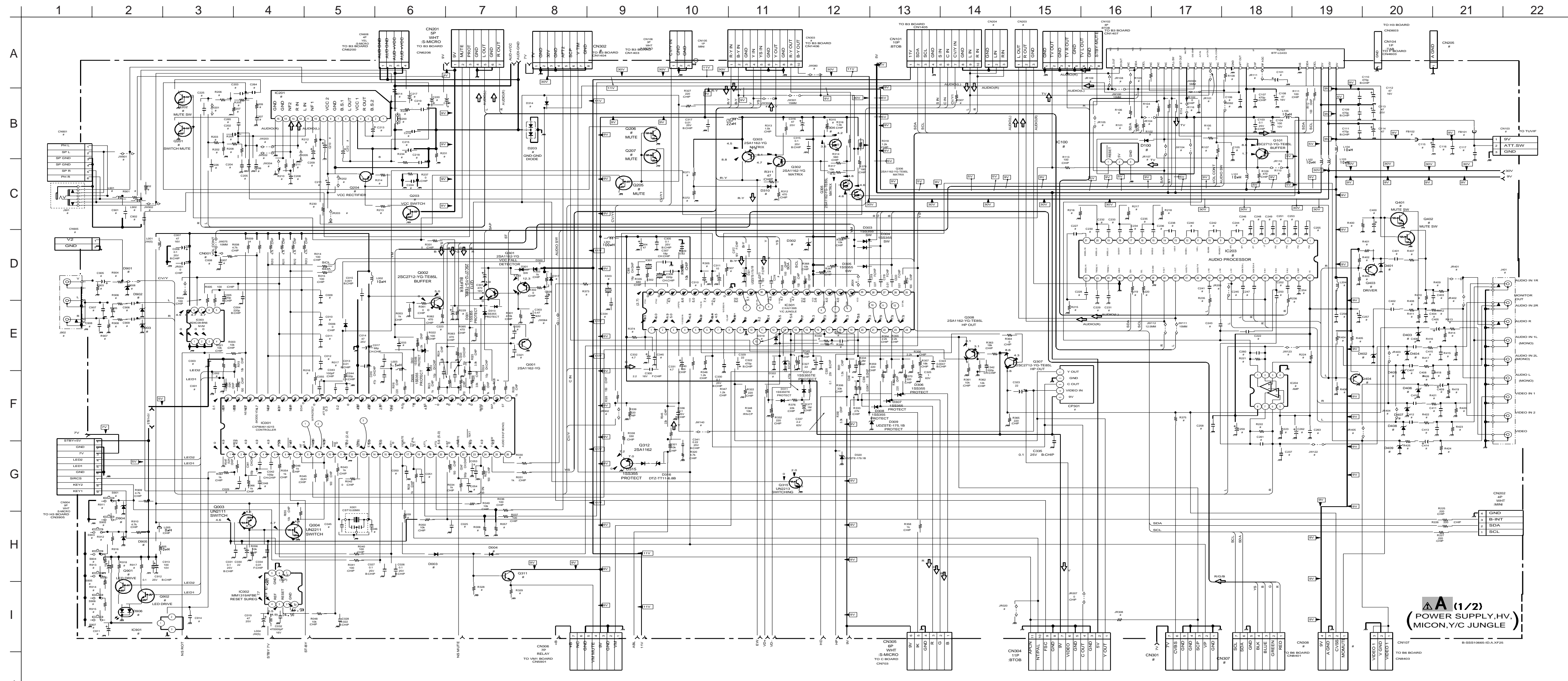
: internal component.

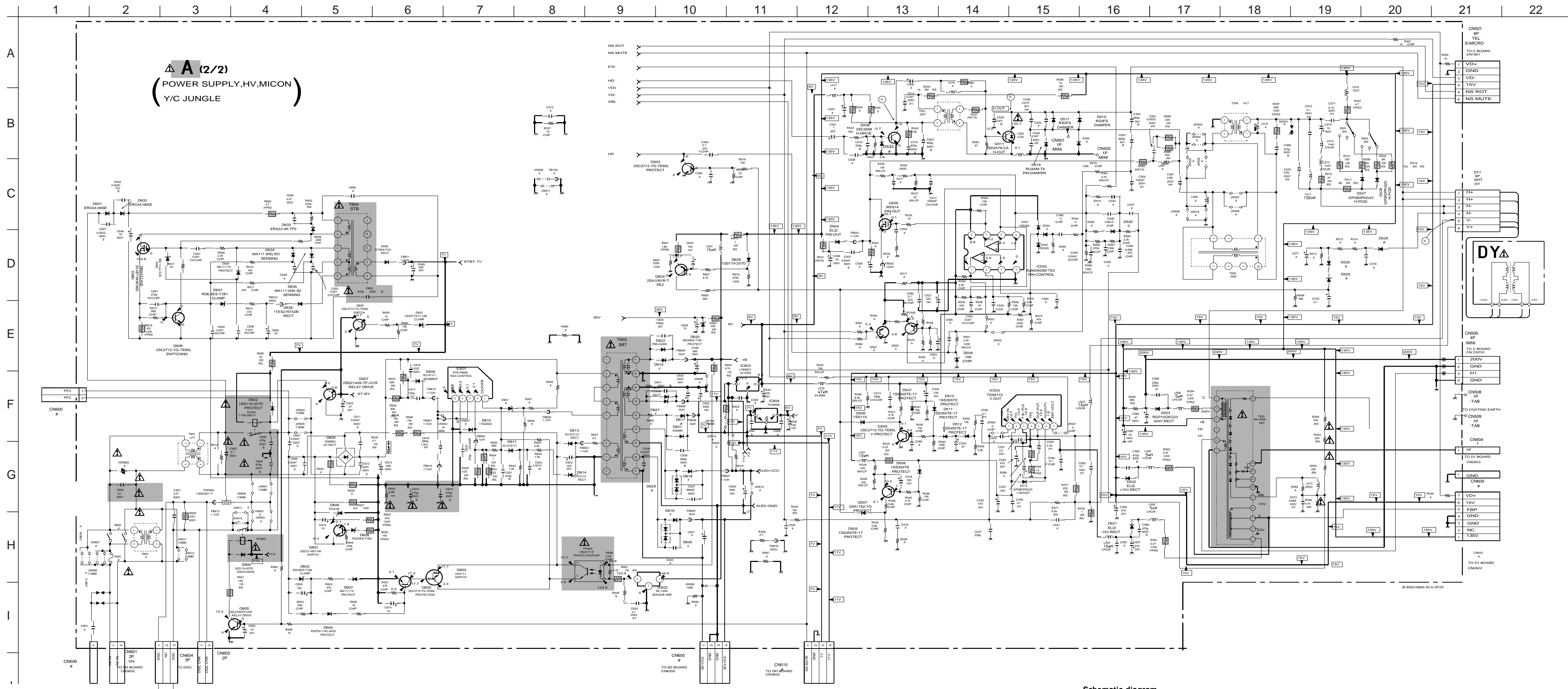
: panel designation or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B unless otherwise noted.
 - **Readings are taken with a color-bar signal input.**
no mark : PAL
() : SECAM
[] : NTSC 3.58
« » : NTSC 4.43
 - **Readings are taken with a 10 M Ω digital multimeter.**
 - **Voltage are dc with respect to ground unless otherwise noted.**
 - **Voltage variations may be noted due to normal production tolerances.**
 - **All voltages are in V.**
 - * : Cannot be measured.
 - **Circled numbers are waveform references.**
 - **— : B + bus.**
 - **- - - : B – bus.**
 - **⇒ : signal path.**

Reference information		
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ✕	ADJUSTMENT RESISTOR
	: LF-8L	MICRO INDUCTOR
	: TA	TANTALUM
COIL	: PS	STYROL
	: PP	POLYPROPYLENE
CAPACITOR	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

Note: The component identified by shading and mark \triangle are critical for safety. Replace only with part number specified.



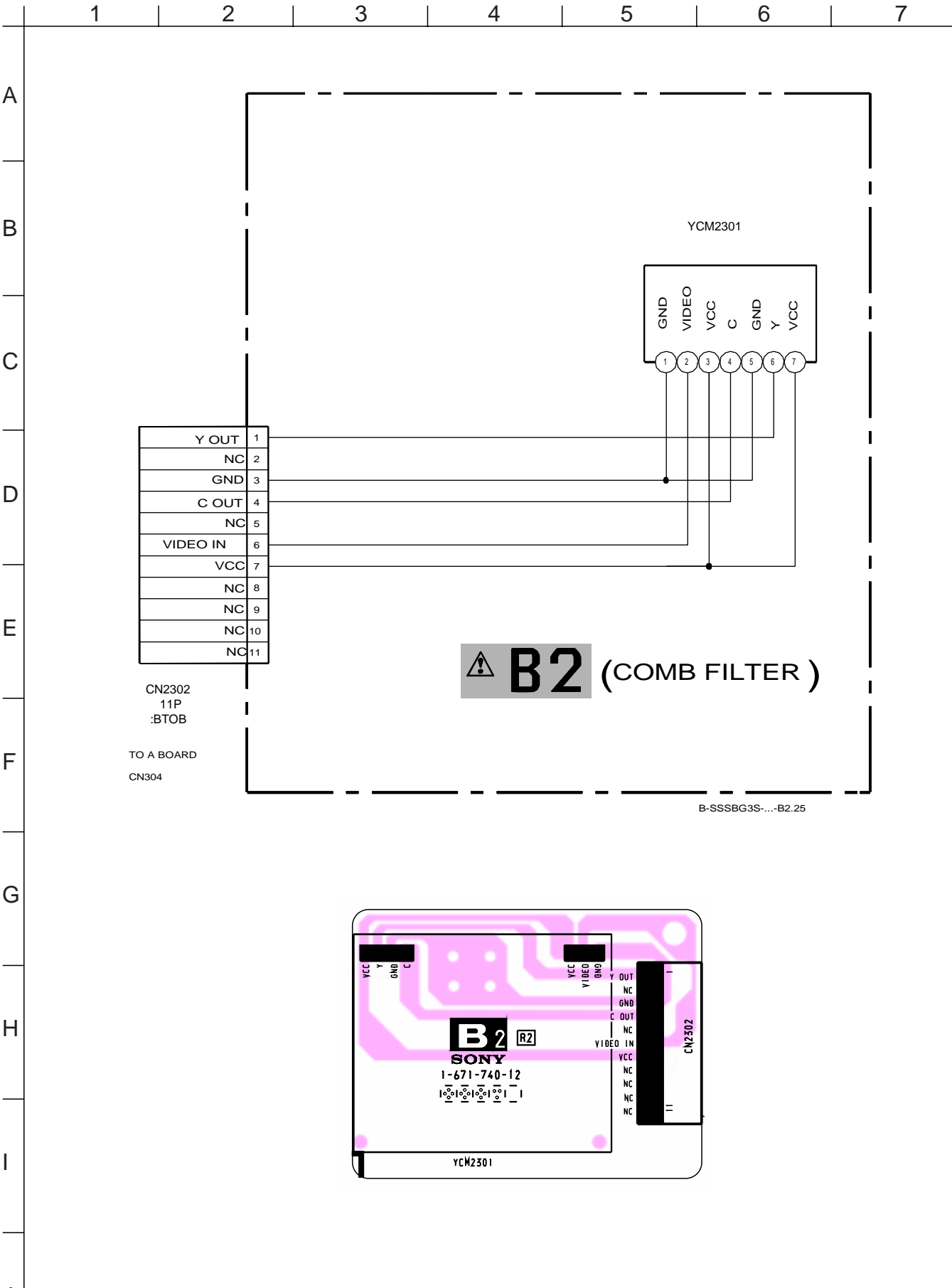




Schematic diagram

← A(2/2) board

(3) Schematic Diagram of B2 Board



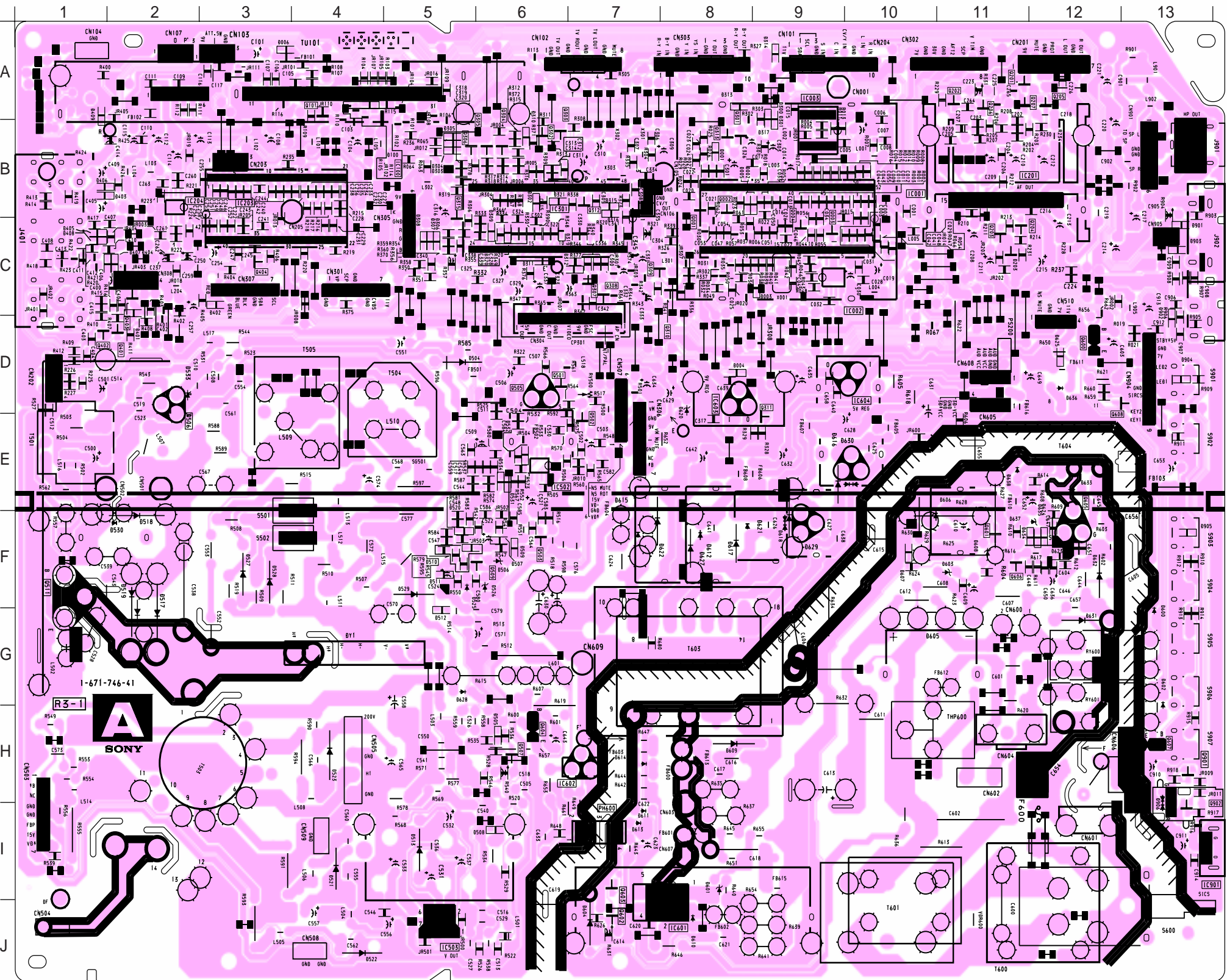
A BOARD

IC	D004 B-10 D006 C-10 D100 A-9 D203 B-5 D301 B-11 D302 B-3 D303 B-2 D304 B-6 D305 J-8 D306 H-6 D307 D-8 D308 D-10 D309 I-13	D004 D-8 D005 B-8 D006 A-3 D100 B-5 D203 C-11 D300 A-9 D301 B-9 D302 B-6 D303 B-5 D304 B-5 D305 B-5 D306 C-5 D307 C-5 D308 C-5 D309 B-6 D310 A-6 D311 C-6 D312 C-6 D313 A-8 D315 B-7 D316 C-7 D317 B-9 D314 A-9 D319 C-6 D320 C-6 D321 B-6 D401 D-2 D402 D-3 D403 B-2 D404 C-2 D405 C-1 D406 B-1 D407 C-2 D408 C-1 D409 A-1 D504 D-5 D505 H-6 D506 F-6 D507 F-6 D508 I-6 D509 F-6 D510 F-5 D511 F-5 D512 G-5 D513 I-5 D517 F-2 D518 F-2 D519 F-2 D520 E-5 D521 I-4 D522 J-4 D523 H-4 D525 F-5 D527 F-3 D528 F-3 D529 F-5 D530 F-2 D531 E-6 D532 E-6 D533 D-2 D534 E-6 D600 G-13 D601 I-8 D602 G-13 D603 F-11 D604 J-7 D605 G-10 D606 E-11 D607 F-10 D608 F-11 D609 H-8 D611 I-7 D612 F-8 D613 I-7
TRANSISTOR	Q001 C-8 Q002 B-8 Q003 C-9 Q004 B-9 Q101 A-4 Q201 A-11 Q202 A-11 Q203 C-11 Q204 C-12 Q205 A-12 Q206 A-11 Q207 A-12 Q301 A-8 Q302 B-6 Q303 A-6 Q304 A-6 Q305 B-6 Q306 B-5 Q307 C-7 Q308 C-7 Q309 C-7 Q310 D-8 Q311 D-9 Q312 B-7 Q313 B-8 Q315 B-5 Q401 D-2 Q402 D-1 Q403 D-2 Q404 C-3 Q501 D-6 Q502 E-7 Q503 F-6 Q505 D-6 Q506 E-2 Q507 H-6 Q509 F-6 Q511 F-1 Q600 D-12 Q601 F-11 Q602 J-7 Q604 H-6 Q605 E-12 Q606 F-11 Q607 H-13 Q608 E-12 Q901 H-13	D-8 B-8 A-3 B-5 C-11 A-9 B-9 B-6 B-5 B-5 C-5 C-5 C-5 C-5 A-6 C-6 C-6 A-8 B-7 C-7 B-9 C-6 C-6 D-2 D-3 B-2 C-2 C-1 B-1 C-2 C-1 A-1 D-5 H-6 F-6 F-6 I-6 F-6 F-5 F-5 G-5 I-5 F-2 F-2 F-2 E-5 I-4 J-4 H-4 F-5 F-3 F-3 F-5 F-2 E-6 E-6 D-2 E-6 G-13 I-8 G-13 F-11 J-7 G-10 E-11 F-10 F-11 H-8 I-7
DIODE	D001 B-8 D002 C-8 D003 C-9	D615 E-7 D616 E-9 D617 F-8 D618 F-9 D620 D-8 D621 F-9 D622 F-8 D623 F-12 D624 E-12 D625 D-12 D627 F-8 D628 G-5 D629 F-9 D630 E-10 D631 G-12 D632 F-12 D633 E-12 D634 F-11 D635 E-12 D636 D-12 D637 F-11 D638 E-11 D901 C-13 D902 C-13 D903 C-13 D904 D-13 D905 F-13 D906 I-13

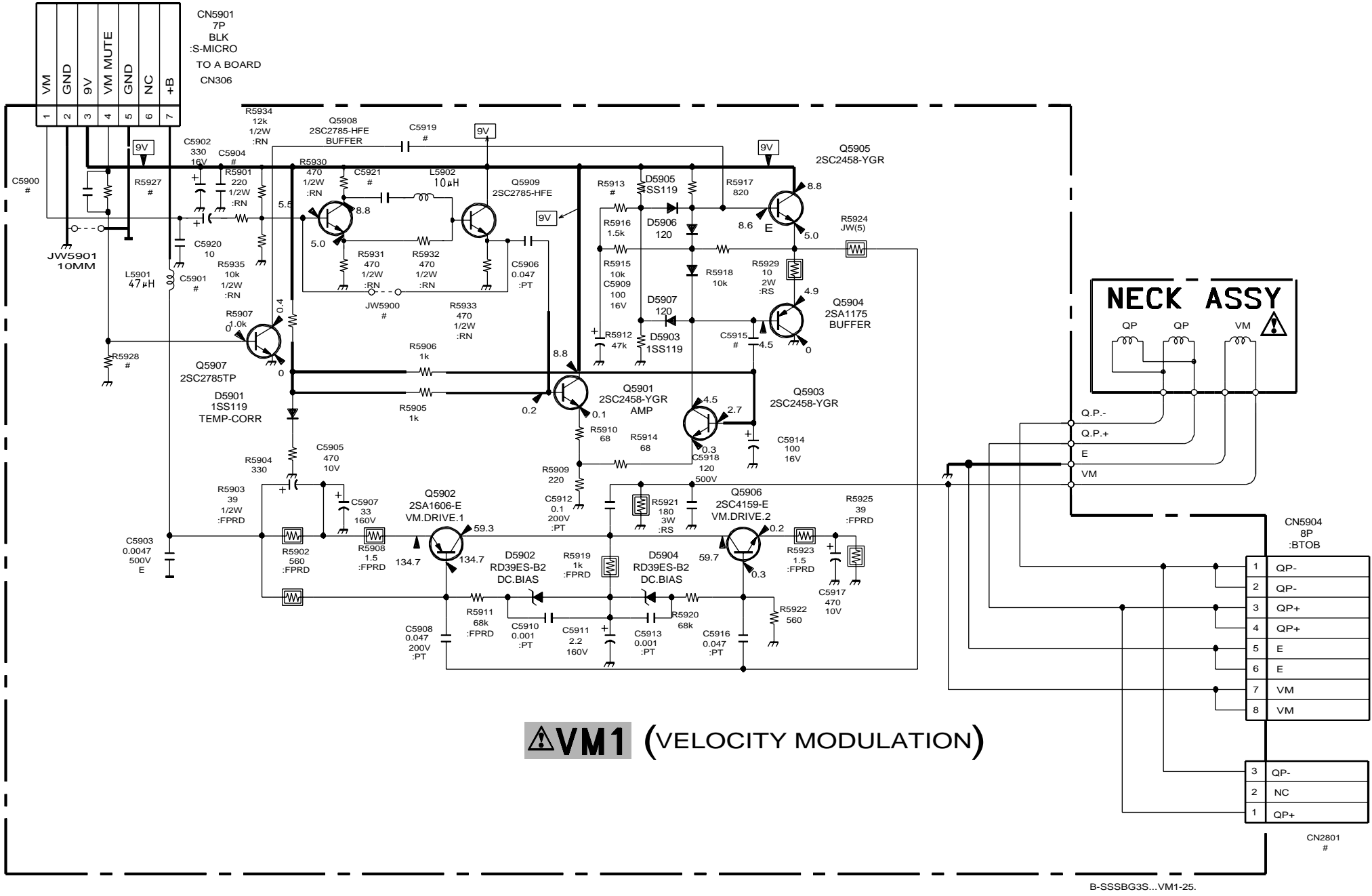
B2 [COMB FILTER] **A** [POWER SUPPLY, HV, MICON, Y/C JUNGLE]

PRINTED WIRING BOARDS

- A Board -

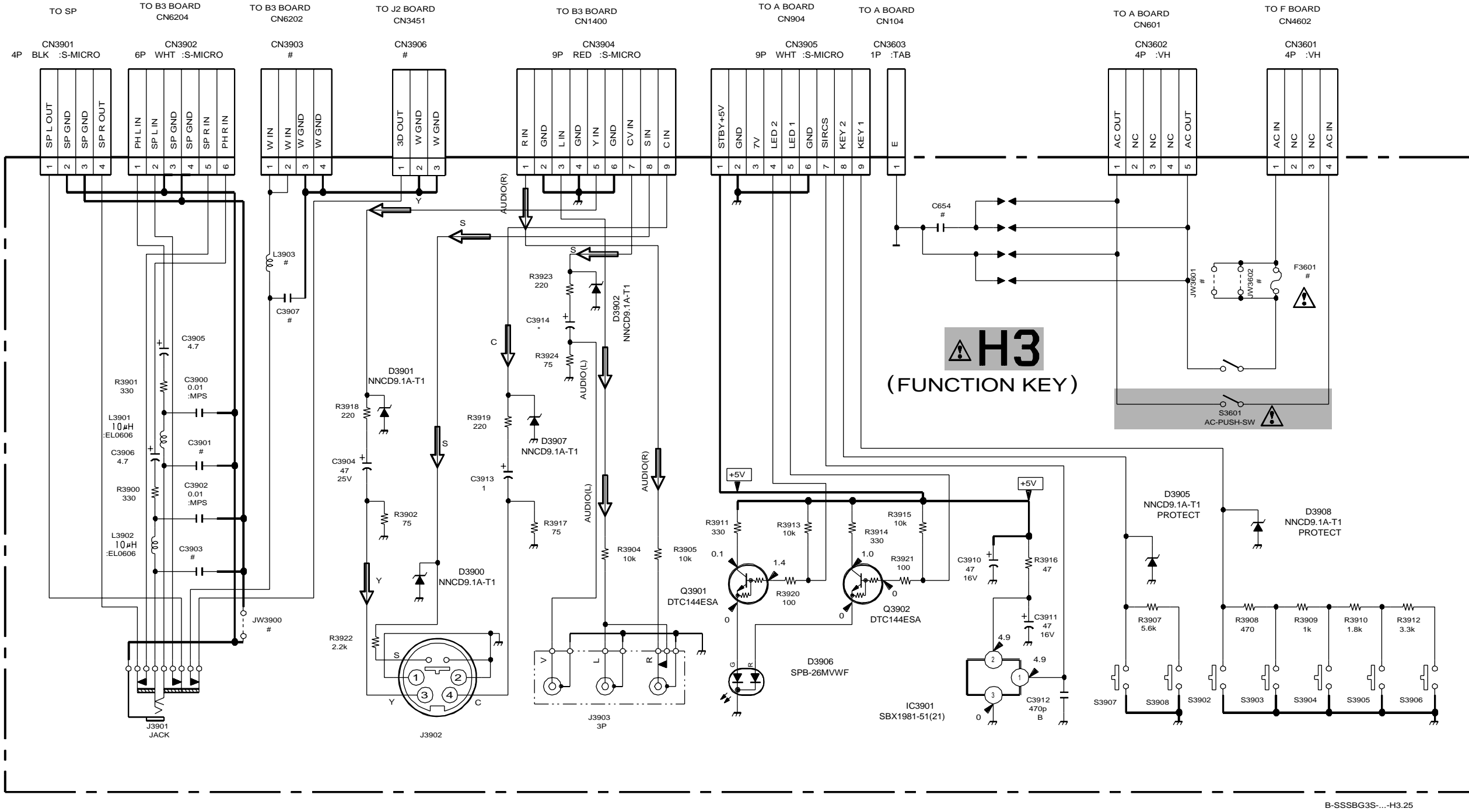


A
B
C
D
E
F
G
H
I
J
K
L
M
N

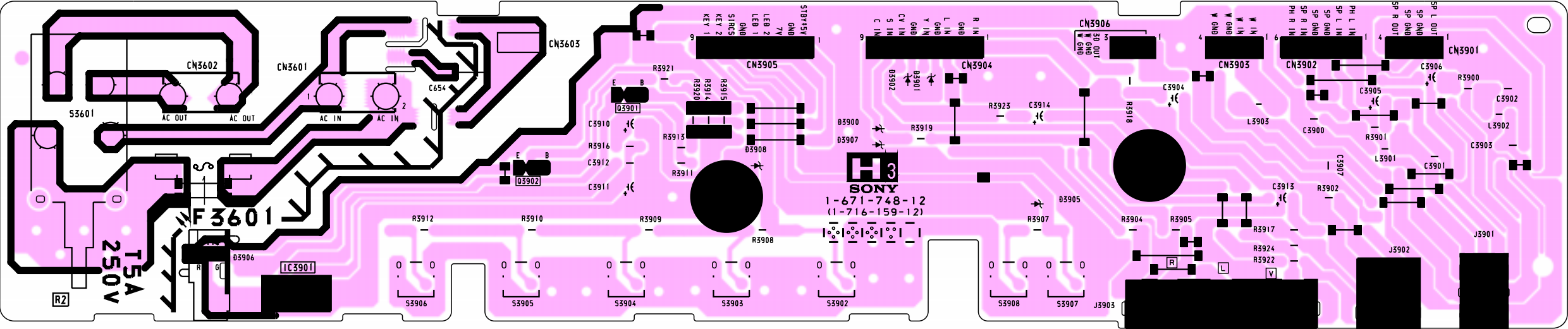
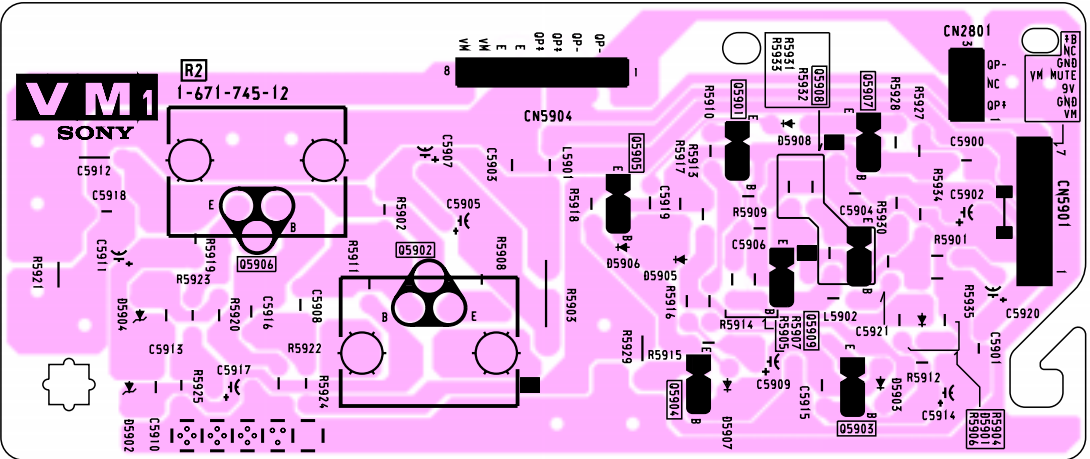


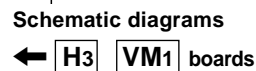
VM1 [VELOCITY MODULATION]

H3 [FUNCTION KEY]

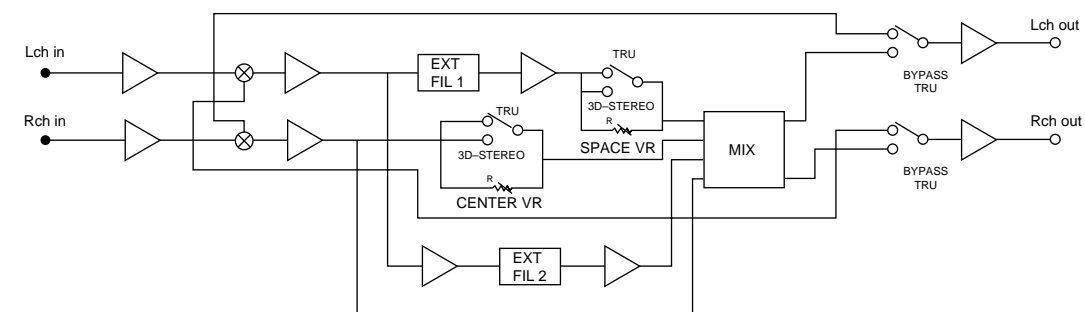


- H3 Board -





B3 [AUDIO PROSESSOR, AV SWITCH]



F board →

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	--

F		F	[CISPR]
---	--	----------	---------

G 1-671-735-12 CN4603



☐ BLUE FEEDBACK ☐ (RED FEEDBACK

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
--	---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----



C [RGB OUT]

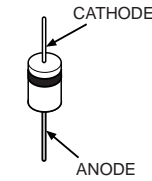


← **C** board

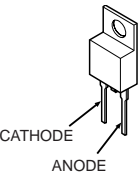
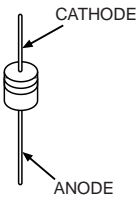
5-5. SEMICONDUCTORS

DIODE

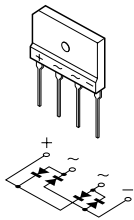
AU-01Z-V1
EL1Z
ERA22-08
GP08D
NNCD9.1A-T1
RD33EB3T
RGP02-17EL-6433



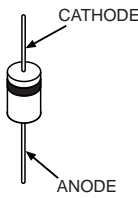
D1NS4
RD11ES-B3
RD20ES-B2
RD30ESB2
RD39ES-B2
RD6.8ES-B1
1SS119-25
11EQSO4
11ES2-7B5



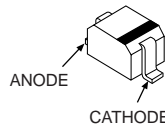
D3SB60



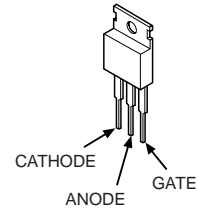
ERC04-06SE
HSS8370
RS3FS
RU4AM-T4



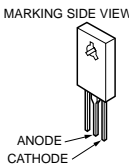
DTZ-TT11-15B
DTZ10B
MA111-(K8).S0
UDZS-TE17-5.1B
UDZS-TE17-9.1B
1SS355TE-17



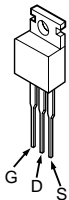
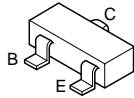
5P6M



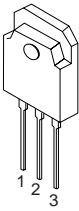
D3L60



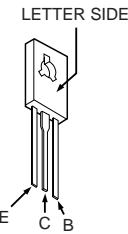
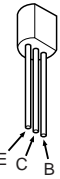
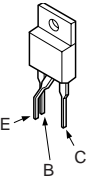
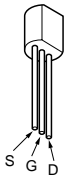
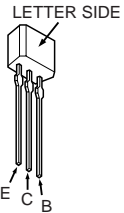
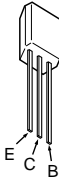
TRANSISTOR



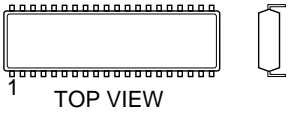
2SD2578-CA



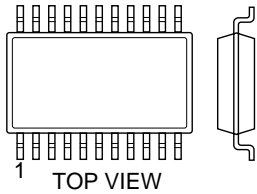
2SC2458-YGR
2SD2144S-UVW



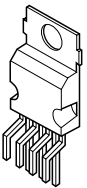
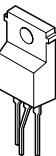
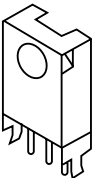
IC



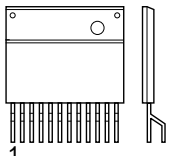
Dual In-line Package
Pin 6~98



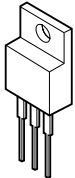
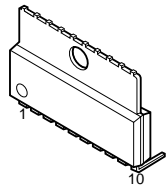
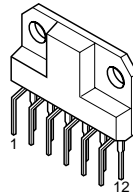
Small Out-line L-leaded Package
Pin 8~98



MARKING SIDE VIEW



Zig-zag In -line Package
Pin 6~99



KV-XF34M31/XF34M50/XF34M80/XF34M93
SECTION 6 RM-954 RM-954 RM-954 RM-953
EXPLODED VIEWS

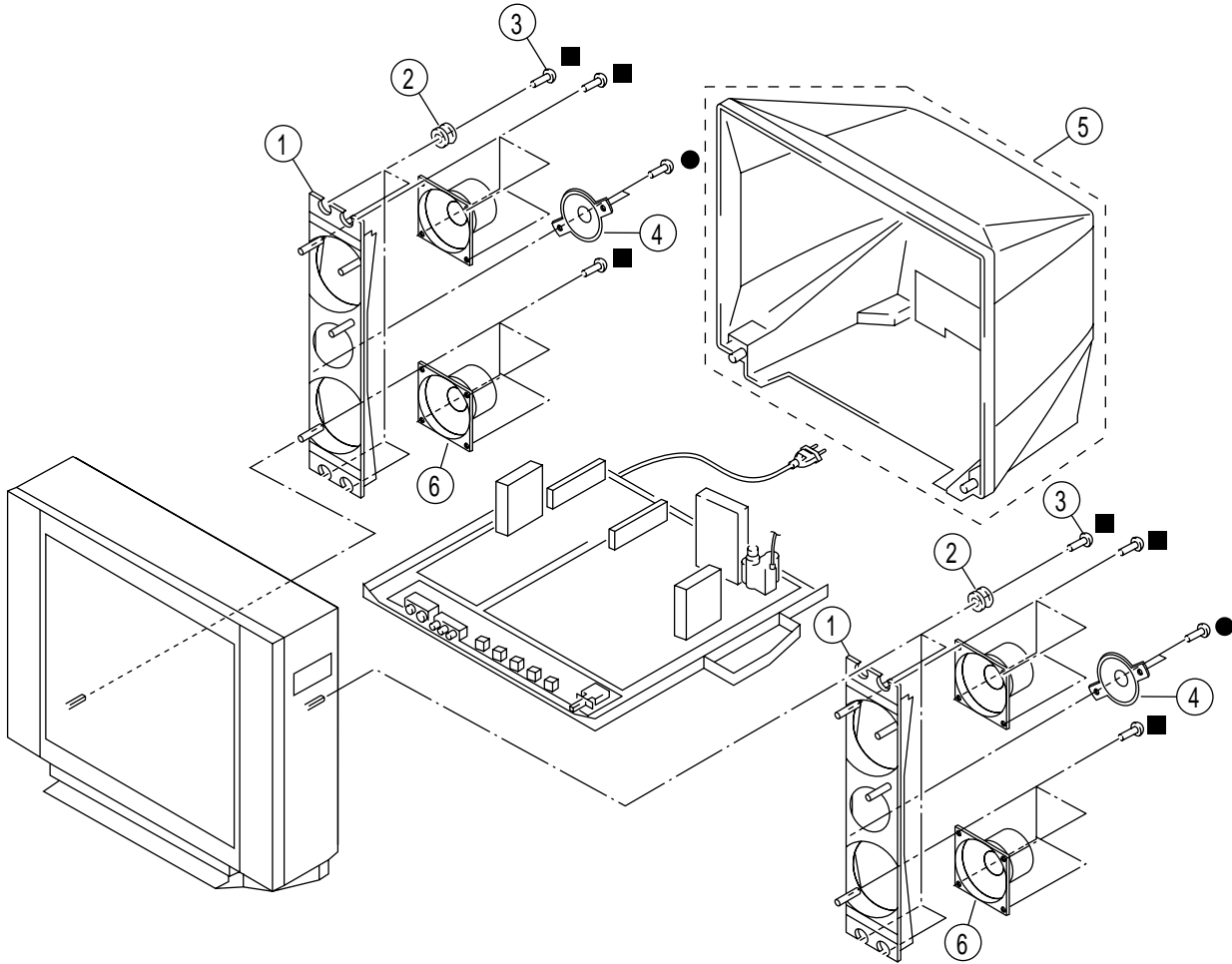
NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

6-1. SPEAKER BRACKET

- : 7-685-663-71 SCREW +BVTP 4 × 16
●: 7-685-648-79 SCREW +BVTP 3 × 12

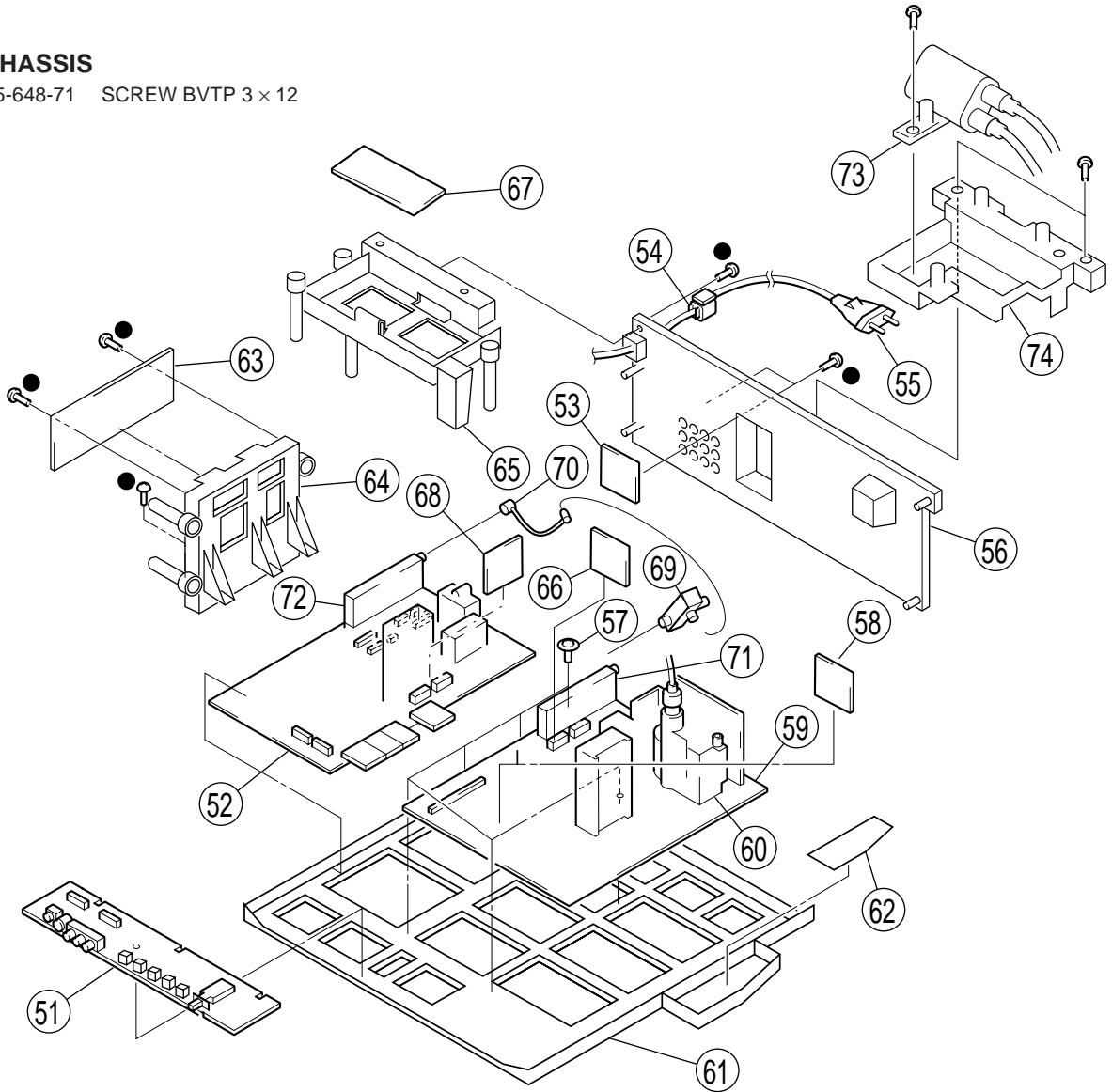


REF. NO.	PART NO.	DESCRIPTION	REMARK
1	4-065-512-02	BRACKET, SPEAKER	
2	4-374-745-21	CUSHION (A)	
3	4-302-404-03	SCREW (WASHER HEAD) (+P 4X16)	
4	1-529-190-11	SPEAKER (5CM)	
5	X-4036-642-1	REAR COVER, ASSY	
6	1-529-179-11	SPEAKER (8CM)	

KV-XF34M31/XF34M50/XF34M80/XF34M93
RM-954 RM-954 RM-954 RM-953

6-2. CHASSIS

- : 7-685-648-71 SCREW BVTP 3 × 12



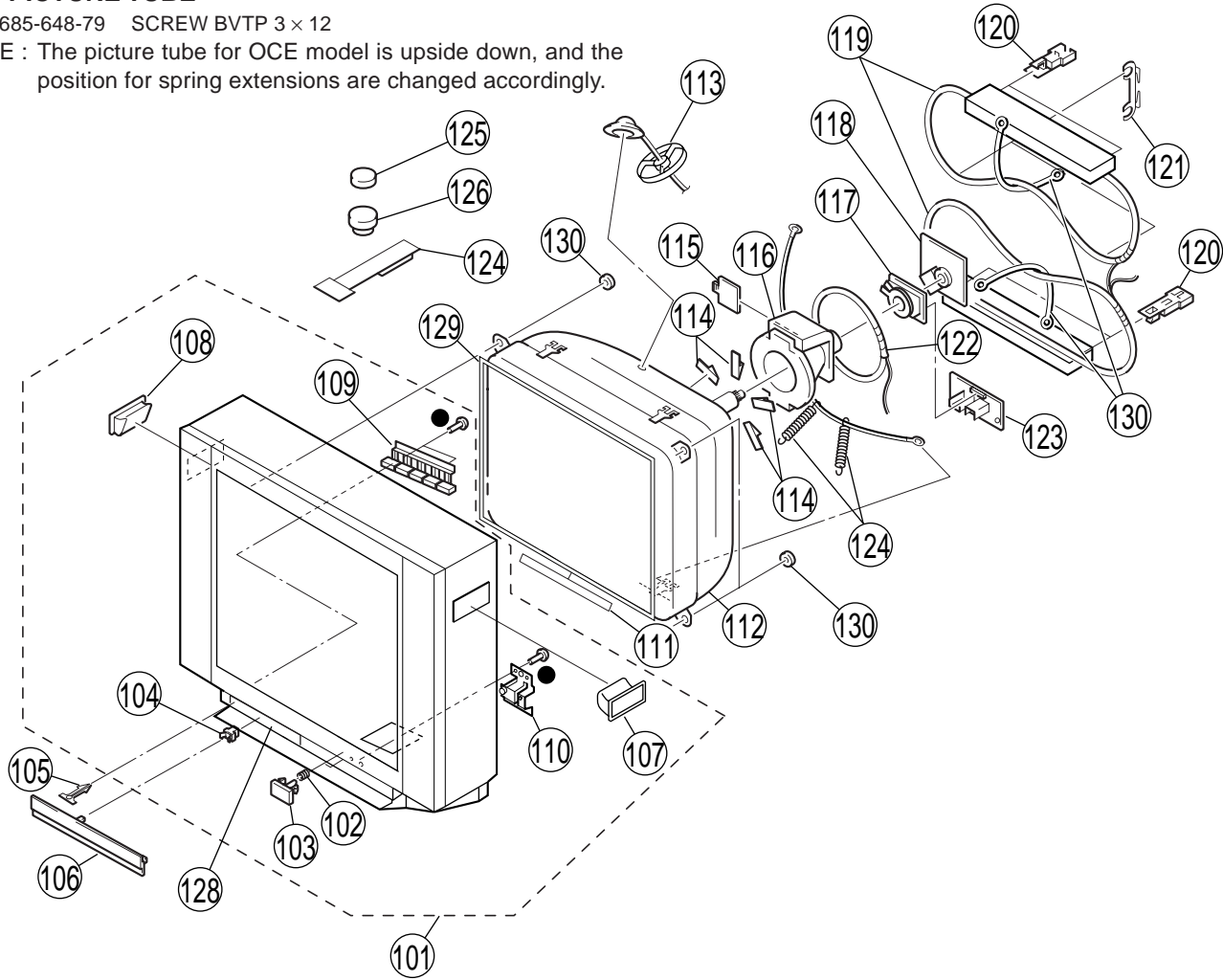
REF. NO.	PART NO.	DESCRIPTION	REMARK
51	* A-1372-576-A	H3 BOARD, COMPLETE (EXCEPT KV-XF34M93)	
	* A-1372-573-A	H3 BOARD, COMPLETE (KV-XF34M93)	
52	* A-1135-978-A	B3 BOARD, COMPLETE (EXCEPT KV-XF34M93)	
	* A-1136-002-A	B3 BOARD, COMPLETE (KV-XF34M93)	
53	* A-1388-247-A	J2 BOARD, COMPLETE (KV-XF34M93 ONLY)	
54	4-022-115-00	HOLDER, AC CORD	
55	Δ 1-574-358-51	CORD, POWER (WITH CONNECTOR) 7.5A/250V (KV-XF34M31)	
	Δ 1-574-062-52	CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-XF34M50/XF34M80)	
	Δ 1-769-609-21	CORD, POWER (WITH CONNECTOR) (KV-XF34M93)	
56	4-066-684-21	BRACKET, TERMINAL (KV-XF34M50/XF34M80)	
	4-066-684-31	BRACKET, TERMINAL (KV-XF34M93)	
57	4-046-797-01	SCREW (3X12), (+)BVTAP	
58	* A-1131-375-A	B2 BOARD, COMPLETE	
59	* A-1298-884-A	A BOARD, COMPLETE (KV-XF34M31)	
	* A-1298-867-A	A BOARD, COMPLETE (KV-XF34M50/XF34M80(E))	
	* A-1298-887-A	A BOARD, COMPLETE (KV-XF34M80(ME))	
	* A-1298-873-A	A BOARD, COMPLETE (KV-XF34M93)	

REF. NO.	PART NO.	DESCRIPTION	REMARK
60	Δ 1-453-298-11	TRANSFORMER ASSY, FLYBACK (NX-4009/M3P) (EXCEPT KV-XF34M31/XF34M80(ME))	
	Δ 1-453-298-31	TRANSFORMER ASSY, FLYBACK (NX-4009/M3P) (KV-XF34M31)	
	Δ 1-453-298-21	TRANSFORMER ASSY, FLYBACK (NX-4009/M3P) (XF34M80(ME))	
61	* 4-066-681-03	BRACKET, MAIN	
62	* A-1343-628-A	D2 BOARD, COMPLETE	
63	* A-1241-346-A	F BOARD, COMPLETE	
64	* 4-066-682-01	BRACKET, F PWB	
65	* 4-066-683-03	HOLDER, PWB	
66	* A-1347-155-A	V1 BOARD, COMPLETE (KV-XF34M31 ONLY)	
67	* A-1343-661-A	DH BOARD, COMPLETE	
68	* A-1190-349-A	P1 BOARD, COMPLETE (KV-XF34M93 ONLY)	
69	1-251-658-21	SPLITTER RF (KV-XF34M93 ONLY)	
70	* 1-555-110-00	P-P CABLE (KV-XF34M93 ONLY)	
71	8-598-451-10	TUNER, FSS BTF-WG441 (KV-XF34M31)	
	8-598-449-10	TUNER, FSS BTF-LG433 (KV-XF34M50/XF34M80)	
	8-598-452-10	TUNER, FSS BTF-WG442 (KV-XF34M93)	
72	8-598-450-01	TUNER, FSS BTF-LG434 (KV-XF34M93 ONLY)	
73	Δ 1-467-525-31	CAP BLOCK, HIGH VOLTAGE	
74	4-066-680-02	BRACKET, HVC	

6-3. PICTURE TUBE

●: 7-685-648-79 SCREW BVTP 3 × 12

NOTE : The picture tube for OCE model is upside down, and the position for spring extensions are changed accordingly.



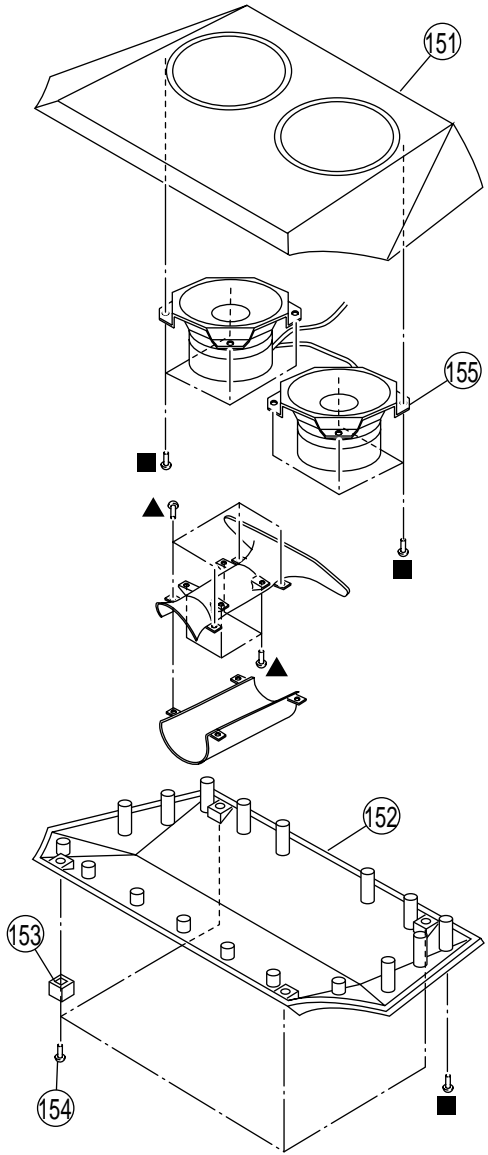
REF. NO.	PART NO.	DESCRIPTION	REMARK
101	X-4036-511-1	BEZNET ASSY (KV-XF34M31/XF34M93)	102-104, 107-110
	X-4036-553-1	BEZNET ASSY (KV-XF34M50/XF34M80)	102-104, 107-110
102	4-036-405-11	SPRING, COMPRESSION	
103	4-065-508-01	BUTTON, POWER	
104	4-047-464-01	CATCHER, PUSH	
105	4-045-250-21	DAMPER	
106	X-4036-611-1	DOOR ASSY (KV-XF34M31)	
	X-4036-223-1	DOOR ASSY (KV-XF34M50/XF34M80)	
	X-4036-560-1	DOOR ASSY (KV-XF34M93)	
107	X-4035-862-2	HANDLE ASSY (R)	
108	X-4035-861-2	HANDLE ASSY (L)	
109	4-065-509-01	BUTTON, CONTROL	
110	* 4-065-510-01	GUIDE, LIGHT	
111	4-067-447-21	SHEET, BLOTING	
112	△ 8-735-062-05	PICTURE TUBE (A80LPD10X) (EXCEPT KV-XF34M50)	
	△ 8-735-063-05	PICTURE TUBE (A80LPD10X) (KV-XF34M50)	
113	* 3-704-372-11	HOLDER, HV CABLE	

REF. NO.	PART NO.	DESCRIPTION	REMARK
114	4-046-600-11	SPACER, DY	
115	2-163-920-01	PLATE, TLH CORRECTION	
116	8-451-499-11	DEFLECTION YOKE (Y34RSA-M)	
117	8-453-007-31	NA324-M3	
118	* A-1331-926-A	C BOARD, COMPLETE	
119	△ 1-416-757-11	COIL, DEMAGNETIC	
120	4-069-493-01	CLIP, DGC	
121	4-069-494-01	HOLDER, DGC	
122	1-452-896-61	COIL, NA ROTATION (RT-200)	
123	* A-1342-481-A	VM1 BOARD, COMPLETE	
124	4-065-852-01	SPRING, EXTENSION (KV-XF34M31/XF34M80)	
	4-065-852-11	SPRING, EXTENSION (KV-XF34M50/XF34M93)	
125	1-452-032-00	MAGNET, DISC	
126	1-452-094-00	CIRCULAR DISC MAGNET B	
127	4-051-734-21	PIECE B(120), CONV. CORRECT	
128	4-032-761-01	SHAFT (S), DOOR	
129	1-416-871-11	COIL, LANDING CORRECTION	
130	4-067-455-11	BAND, DGC (KV-XF34M50/XF34M93 ONLY)	

6-4. 3D SPEAKER (KV-XF34M93 ONLY)

▲: 7-685-661-71 SCREW BVTP 4 × 12

■: 7-685-663-71 SCREW BVTP 4 × 16



REF. NO.	PART NO.	DESCRIPTION	REMARK
151	4-068-694-01	TOP COVER, SD BOX	
152	4-068-695-01	BOTTOM, SD BOX	
153	* 4-037-244-01	FOOT	
154	4-029-432-01	SCREW (3X12), (+) BVWHTP	
155	1-529-348-11	SPEAKER, LOUD (12CM)	

KV-XF34M31/XF34M50/XF34M80/XF34M93

SECTION 7

RM-954RM-954RM-954RM-954

ELECTRICAL PARTS LIST

A

(EXCEPT
KV-XF34M93)

NOTE:

The components identified by shading and mark \triangle are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
 - All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- All resistors are in ohms
 - F : nonflammable
- CAPACITORS

 - MF : μ F, PF : μ μ F
- COILS

 - MMH : mH, UH : μ H

REF.NO.	PART NO.	DESCRIPTION	REMARK				REF.NO.	PART NO.	DESCRIPTION	REMARK			
	A-1298-884-A	A BOARD, COMPLETE (KV-XF34M31)	*****				C300	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
	A-1298-867-A	A BOARD, COMPLETE (KV-XF34M50/XF34M80(E))	*****				C301	1-126-935-11	ELECT	470MF	20%	16V	
	A-1298-887-A	A BOARD, COMPLETE (KV-XF34M80(ME))	*****				C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
							C303	1-126-959-11	ELECT	0.47MF	20%	50V	
							C304	1-126-967-11	ELECT	47MF	20%	50V	
	4-382-854-11	SCREW (M3X10), P, SW (+)					C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
	4-382-854-21	SCREW (M3X14), P, SW (+)					C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	
							C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V	
							C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
							C309	1-126-957-11	ELECT	0.22MF	20%	50V	
		<CAPACITOR>					C311	1-126-964-11	ELECT	10MF	20%	50V	
							C312	1-164-346-11	CERAMIC CHIP	1MF		16V	
							C313	1-164-346-11	CERAMIC CHIP	1MF		16V	
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V		C316	1-126-967-11	ELECT	47MF	20%	50V	
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V								
C007	1-126-933-11	ELECT	100MF	20%	16V		C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V		C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
							C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C014	1-126-967-11	ELECT	47MF	20%	50V		C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V	
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V		C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V	
C016	1-163-243-11	CERAMIC CHIP	47PF	5%	50V								
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V		C323	1-126-965-11	ELECT	22MF	20%	50V	
C019	1-104-665-11	ELECT	100MF	20%	25V		C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
							C325	1-126-960-11	ELECT	1MF	20%	50V	
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V		C327	1-126-965-11	ELECT	22MF	20%	50V	
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V		C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V								
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		C329	1-126-965-11	ELECT	22MF	20%	50V	
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
							C331	1-126-963-11	ELECT	4.7MF	20%	50V	
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V		C332	1-126-963-11	ELECT	4.7MF	20%	50V	
C030	1-126-965-11	ELECT	22MF	20%	50V		C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V								
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V		C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V		C337	1-126-961-11	ELECT	2.2MF	20%	50V	
							C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V	
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V	
C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V								
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V	
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V		C503	1-126-964-11	ELECT	10MF	20%	50V	
							C504	1-163-007-11	CERAMIC CHIP	680PF	10%	50V	
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		C506	1-107-638-11	ELECT	33MF	20%	160V	
C104	1-126-933-11	ELECT	100MF	20%	16V		C507	1-102-244-00	CERAMIC	220PF	10%	500V	
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V								
C108	1-126-933-11	ELECT	100MF	20%	16V		C510	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		C513	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	
							C514	1-106-383-00	MYLAR	0.047MF	10%	200V	
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V	
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V		C518	1-126-933-11	ELECT	100MF	20%	16V	
C112	1-126-933-11	ELECT	100MF	20%	16V								
C113	1-126-967-11	ELECT	47MF	20%	50V		C519	1-102-212-00	CERAMIC	820PF	10%	500V	
C114	1-126-967-11	ELECT	47MF	20%	50V		C521	1-104-666-11	ELECT	220MF	20%	25V	

KV-XF34M31/XF34M50/XF34M80/XF34M93

RM-954RM-954RM-954RM-953

A

(EXCEPT
KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK			
C522	1-126-933-11	ELECT	100MF	20%	16V	
C523	1-162-318-11	CERAMIC	0.001MF	10%	500V	
C524	1-126-967-11	ELECT	47MF	20%	50V	
C526	1-130-495-00	MYLAR	0.1MF	5%	50V	
C527	1-102-820-00	CERAMIC	330PF	5%	50V	
C528	1-162-116-00	CERAMIC	680PF	10%	2KV	
C530	1-137-372-11	FILM	0.022MF	5%	50V	
C531	1-107-903-11	ELECT	2.2MF	20%	50V	
C532	1-128-528-11	ELECT	470MF	20%	25V	
C533	1-128-528-11	ELECT	470MF	20%	25V	
C536	1-136-165-00	FILM	0.1MF	5%	50V	
C537	1-107-911-11	ELECT	220MF	20%	50V	
C538	1-136-544-11	FILM	0.023MF	3%	2KV	
C539	1-130-118-91	FILM	0.051MF	5%	400V	
C540	1-136-171-00	FILM	0.33MF	5%	50V	
C543	1-162-116-00	CERAMIC	680PF	10%	2KV	
C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V	
C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V	
C550	1-106-220-00	MYLAR	0.1MF	10%	100V	
C551	1-126-960-11	ELECT	1MF	20%	50V	
C552	1-162-116-00	CERAMIC	680PF	10%	2KV	
C553	1-162-116-00	CERAMIC	680PF	10%	2KV	
C554	1-106-361-00	MYLAR	0.0056MF	10%	100V	
C556	1-128-528-11	ELECT	470MF	20%	25V	
C557	1-126-941-11	ELECT	470MF	20%	25V	
C558	1-123-024-21	ELECT	33MF		160V	
C560	1-102-228-00	CERAMIC	470PF	10%	500V	
C561	1-129-928-00	FILM	0.0027MF	5%	630V	
C562	1-102-228-00	CERAMIC	470PF	10%	500V	
C563	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V	
C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C565	1-107-655-11	ELECT	47MF	20%	250V	
C566	1-102-244-00	CERAMIC	220PF	10%	500V	
C567	1-117-813-11	FILM	0.75MF	5%	250V	
C568	1-102-228-00	CERAMIC	470PF	10%	500V	
C570	1-117-674-71	FILM	1.8MF	5%	250V	
C571	1-126-959-11	ELECT	0.47MF	20%	50V	
C572	1-115-514-11	FILM	0.22MF	5%	250V	
C573	1-106-387-00	MYLAR	0.068MF	10%	200V	
C574	1-104-709-11	ELECT	4.7MF	0	160V	
C576	1-130-495-00	MYLAR	0.1MF	5%	50V	
C577	1-115-516-11	FILM	0.33MF	5%	250V	
C579	1-102-038-00	CERAMIC	0.001MF		500V	
C600	\triangle 1-104-705-51	FILM	0.1MF	20%	250V	
C601	1-136-601-11	FILM	0.01MF	5%	630V	
C603	1-126-967-11	ELECT	47MF	20%	50V	
C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C605	\triangle 1-119-886-51	CERAMIC	470PF	10%	250V	
C606	\triangle 1-119-886-51	CERAMIC	470PF	10%	250V	
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C609	1-126-968-11	ELECT	100MF	20%	50V	
C610	1-126-964-11	ELECT	10MF	20%	50V	
C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V	
C613	1-125-906-11	ELECT	560MF	20%	450V	

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C614	1-126-964-11	ELECT	10MF	20%	50V
C615	\triangle 1-119-886-51	CERAMIC	470PF	10%	250V
C616	1-130-202-00	FILM	0.022MF	10%	400V
C617	1-107-792-11	CERAMIC	100PF	5%	1KV
C618	1-125-893-11	FILM	680PF	3%	1.5KV
C619	\triangle 1-119-886-51	CERAMIC	470PF	10%	250V
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C621	1-102-114-00	CERAMIC	470PF	10%	50V
C622	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C623	1-104-665-11	ELECT	100MF	20%	25V
C624	1-125-772-91	CERAMIC	1500PF	10%	2KV
C625	1-102-002-00	CERAMIC	680PF	10%	500V
C626	1-102-002-00	CERAMIC	680PF	10%	500V
C629	1-126-964-11	ELECT	10MF	20%	50V
C630	1-125-494-11	ELECT(BLOCK)	560MF	20%	160V
C631	1-128-550-11	ELECT	2200MF	20%	50V
C632	1-126-936-11	ELECT	3300MF	20%	16V
C633	1-104-999-11	MYLAR	0.1MF	10%	200V
C634	1-126-934-11	ELECT	220MF	20%	16V
C635	1-104-665-11	ELECT	100MF	20%	10V
C636	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V
C638	1-161-830-00	CERAMIC	0.0047MF		500V
C641	1-102-002-00	CERAMIC	680PF	10%	500V
C642	1-126-943-11	ELECT	2200MF	20%	25V
C643	1-126-933-11	ELECT	100MF	20%	16V
C644	1-104-331-11	CERAMIC	0.0022MF	10%	1KV
C645	1-137-605-11	FILM	0.01MF	10%	250V
C646	1-107-679-91	ELECT	10MF	20%	450V
C647	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C649	1-126-940-11	ELECT	330MF	20%	25V
C650	1-163-275-11	CERAMIC CHIP	0.001MF	5%	50V
C651	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C652	1-126-965-11	ELECT	22MF	20%	50V
C653	1-126-967-11	ELECT	47MF	20%	50V
C655	\triangle 1-119-886-51	CERAMIC	470PF	10%	250V
C657	1-101-821-00	CERAMIC	0.0022MF		500V
C912	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C913	1-126-933-11	ELECT	100MF	20%	16V
<CONNECTOR>					
CN101	* 1-779-890-11	CONNECTOR, BOARD TO BOARD 10P			
CN102	* 1-779-889-11	CONNECTOR, BOARD TO BOARD 8P			
CN104	1-695-915-11	TAB (CONTACT)			
CN105	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P			
CN106	* 1-564-506-11	PLUG, CONNECTOR 3P			
CN201	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN202	* 1-508-879-11	BASE POST			
CN301	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XF34M31 ONLY)			
CN304	* 1-766-955-11	CONNECTOR, BOARD TO BOARD 11P			
CN305	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN307	* 1-774-813-11	CONNECTOR, BOARD TO BOARD 7P (KV-XF34M31 ONLY)			
CN503	* 1-564-510-11	PLUG, CONNECTOR 7P			
CN504	1-695-915-11	TAB (CONTACT)			
CN505*	\triangle 1-508-765-11	PIN, CONNECTOR (5MM PITCH) 4P			
CN507	* 1-564-509-11	PLUG, CONNECTOR 6P			

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

A (EXCEPT
KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
CN508	1-695-915-11	TAB (CONTACT)		D603	8-719-150-92	DIODE RD33EB3T	
CN509	1-695-915-11	TAB (CONTACT)		D604	8-719-028-72	DIODE RGP02-17EL-6433	
CN510	* 1-564-507-11	PLUG, CONNECTOR 4P		D605	8-719-510-53	DIODE D4SB60L	
CN601	* 1-580-843-11	PIN, CONNECTOR (POWER)		D606	8-719-108-18	THYRISTOR 5P6M	
CN602	* \triangle 1-573-963-11	PIN, CONNECTOR (5MM PITCH) 2P		D607	8-719-404-50	DIODE MA111-TX	
CN603	* 1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		D608	8-719-110-53	DIODE RD20ESB2	
CN604	* 1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P		D609	8-719-311-31	DIODE RU-1P	
CN608	* 1-564-507-11	PLUG, CONNECTOR 4P		D610	8-719-043-76	DIODE AK04V0	
CN904	* 1-564-512-11	PLUG, CONNECTOR 9P		D611	8-719-046-74	DIODE AU-01Z-V1	
		<DIODE>		D612	8-719-071-38	DIODE D5S6M	
D001	8-719-988-61	DIODE 1SS355TE-17		D613	8-719-046-74	DIODE AU-01Z-V1	
D002	8-719-988-61	DIODE 1SS355TE-17		D614	8-719-046-74	DIODE AU-01Z-V1	
D005	8-719-988-61	DIODE 1SS355TE-17		D620	8-719-110-72	DIODE RD30ESB2	
D006	1-216-295-91	SHORT 0		D621	8-719-071-38	DIODE D5S6M	
D100	8-719-404-50	DIODE MA111-TX (KV-XF34M31 ONLY)		D622	8-719-071-39	DIODE FMU-G26S	
D300	1-216-295-91	SHORT 0		D623	8-719-978-65	DIODE DTZ-TT11-15B	
D301	8-719-988-61	DIODE 1SS355TE-17		D624	8-719-404-50	DIODE MA111-TX	
D303	8-719-988-61	DIODE 1SS355TE-17		D625	8-719-158-39	DIODE RD10SB	
D304	8-719-988-61	DIODE 1SS355TE-17		D628	8-719-911-19	DIODE 1SS119-25	
D305	8-719-988-61	DIODE 1SS355TE-17		D630	8-719-510-37	DIODE D5SLC20U	
D306	8-719-988-61	DIODE 1SS355TE-17		D631	8-719-068-00	DIODE ERC04-06SE	
D307	8-719-988-61	DIODE 1SS355TE-17		D632	8-719-068-00	DIODE ERC04-06SE	
D308	8-719-988-61	DIODE 1SS355TE-17		D633	8-719-948-45	DIODE ERA22-08	
D309	8-719-159-10	DIODE RD5.1SB-T2		D634	8-719-404-50	DIODE MA111-TX	
D310	8-719-988-61	DIODE 1SS355TE-17		D635	8-719-404-50	DIODE MA111-TX	
D311	8-719-988-61	DIODE 1SS355TE-17				<CONNECTOR>	
D312	8-719-988-61	DIODE 1SS355TE-17		DY1	* \triangle 1-580-798-11	CONNECTOR PIN (DY) 6P	
D313	8-719-988-61	DIODE 1SS355TE-17				<FERRITE BEAD>	
D315	8-719-988-61	DIODE 1SS355TE-17		FB501	1-410-397-21	FERRITE 1.1UH	
D316	8-719-158-35	DIODE RD9.1SB		FB502	1-410-397-21	FERRITE 1.1UH	
D504	8-719-302-43	DIODE EL1Z		FB600	1-410-397-21	FERRITE 1.1UH	
D505	8-719-988-61	DIODE 1SS355TE-17		FB601	1-410-397-21	FERRITE 1.1UH	
D506	8-719-911-19	DIODE 1SS119-25		FB602	1-410-397-21	FERRITE 1.1UH	
D507	8-719-988-61	DIODE 1SS355TE-17		FB603	1-410-397-21	FERRITE 1.1UH	
D508	8-719-988-61	DIODE 1SS355TE-17		FB604	1-410-397-21	FERRITE 1.1UH	
D509	8-719-158-15	DIODE RD5.6SB		FB605	1-412-911-31	FERRITE 0UH	
D510	8-719-988-61	DIODE 1SS355TE-17		FB606	1-412-911-31	FERRITE 0UH	
D511	8-719-988-61	DIODE 1SS355TE-17		FB608	1-412-911-31	FERRITE 0UH	
D512	8-719-988-61	DIODE 1SS355TE-17		FB611	1-410-397-21	FERRITE 1.1UH	
D513	8-719-908-03	DIODE GP08D		FB612	1-410-397-21	FERRITE 1.1UH	
D517	8-719-061-21	DIODE FMQ-G5FMS		FB613	1-410-397-21	FERRITE 1.1UH	
D520	8-719-404-50	DIODE MA111-TX		FB615	1-410-397-21	FERRITE 1.1UH	
D521	8-719-302-43	DIODE EL1Z				<IC>	
D522	8-719-028-45	DIODE D2L20U		IC001	8-752-903-52	IC CXP86461-609S (KV-XF34M80(ME))	
D523	8-719-028-45	DIODE D2L20U			8-752-903-51	IC CXP86461-608S (EXCEPT KV-XF34M80(ME))	
D525	8-719-911-19	DIODE 1SS119-25		IC002	8-759-371-21	IC MM1319AFBE	
D526	8-719-150-92	DIODE RD33EB3T		IC003	8-759-370-34	IC ST24C08FB6	
D527	8-719-908-03	DIODE GP08D		IC100	8-759-042-02	IC S-80743AL-A7-S (KV-XF34M31 ONLY)	
D528	8-719-908-03	DIODE GP08D		IC301	8-752-088-39	IC CXA2130S	
D529	8-719-028-72	DIODE RGP02-17EL-6433					
D530	8-719-071-39	DIODE FMU-G26S					
D531	8-719-988-61	DIODE 1SS355TE-17					
D532	8-719-988-61	DIODE 1SS355TE-17					
D600	8-719-911-19	DIODE 1SS119-25					
D602	8-719-911-19	DIODE 1SS119-25					

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**A (EXCEPT
KV-XF34M93)**The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
IC502	8-759-700-07	IC NJM2903M	
IC503	8-759-980-58	IC TDA8172	
IC601	8-749-014-48	IC STR-F6656	
IC602	8-749-920-61	IC SE-135N	
IC603	8-759-701-59	IC NJM78M09FA	
IC604	8-759-231-53	IC TA7805S	
<CHIP CONDUCTOR>			
JR002	1-216-295-91	SHORT	0
JR004	1-216-295-91	SHORT	0
JR005	1-216-295-91	SHORT	0
JR006	1-216-295-91	SHORT	0
JR007	1-216-295-91	SHORT	0
JR008	1-216-295-91	SHORT	0
JR010	1-216-295-91	SHORT	0
JR012	1-216-295-91	SHORT	0
JR013	1-216-295-91	SHORT	0
JR014	1-216-295-91	SHORT	0
JR015	1-216-295-91	SHORT	0
JR016	1-216-295-91	SHORT	0
JR102	1-216-295-91	SHORT	0
JR107	1-216-295-91	SHORT	0 (KV-XF34M31 ONLY)
JR109	1-216-295-91	SHORT	0 (EXCEPT KV-XF34M31)
JR301	1-216-295-91	SHORT	0
JR303	1-216-295-91	SHORT	0
JR500	1-216-295-91	SHORT	0
JR501	1-216-295-91	SHORT	0
JR502	1-216-295-91	SHORT	0
JR600	1-216-295-91	SHORT	0
<COIL>			
L002	1-414-856-11	INDUCTOR	10UH
L003	1-414-180-11	INDUCTOR	3.3UH
L005	1-414-233-22	INDUCTOR CHIP	0UH
L101	1-414-856-11	INDUCTOR	10UH
L102	1-414-856-11	INDUCTOR	10UH
L103	1-414-856-11	INDUCTOR	10UH
L104	1-414-856-11	INDUCTOR	10UH
L105	1-414-856-11	INDUCTOR	10UH
L301	1-414-189-31	INDUCTOR	100UH
L302	1-414-185-41	INDUCTOR	22UH
L501	1-412-525-31	INDUCTOR	10UH
L502	1-422-613-11	COIL, AIR CORE	
L503	1-412-525-31	INDUCTOR	10UH
L504	1-412-525-31	INDUCTOR	10UH
L505	1-412-525-31	INDUCTOR	10UH
L506	1-412-525-31	INDUCTOR	10UH
L507	1-459-111-00	INDUCTOR	10MMH
L508	1-412-525-31	INDUCTOR	10UH
L511	1-406-977-21	INDUCTOR	100UH
L512	1-412-549-31	INDUCTOR	1MMH
L513	1-412-549-31	INDUCTOR	1MMH
L515	1-459-104-00	COIL, WITH CORE	
L518	1-408-611-31	INDUCTOR	47UH
L601	1-412-527-11	INDUCTOR	15UH
L905	1-414-856-11	INDUCTOR	10UH

REF. NO.	PART NO.	DESCRIPTION	REMARK
<PHOTO COUPLER>			
PH600 \triangle	8-749-924-35	PHOTO COUPLER ON3171-R	
<TRANSISTOR>			
Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q003	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q004	8-729-027-43	TRANSISTOR DTC114EKA-T146	
Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
Q302	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q303	8-729-216-22	TRANSISTOR 2SA1162-G	
Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
Q307	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q308	8-729-216-22	TRANSISTOR 2SA1162-G	
Q312	8-729-216-22	TRANSISTOR 2SA1162-G	
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q315	1-801-806-11	TRANSISTOR DTC144EK-T146	
Q501	8-729-216-22	TRANSISTOR 2SA1162-G	
Q502	8-729-216-22	TRANSISTOR 2SA1162-G	
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q505	8-729-931-45	TRANSISTOR IRF614	
Q506	8-729-140-96	TRANSISTOR 2SD774-34	
Q507	8-729-216-22	TRANSISTOR 2SA1162-G	
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q511	8-729-016-32	TRANSISTOR 2SC4927-01	
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE	
Q601	8-729-023-22	TRANSISTOR 2SD2114K	
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q603	8-729-027-23	TRANSISTOR DTA114EKA-T146	
Q604	8-729-200-17	TRANSISTOR 2SA1091-O	
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102	
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG	
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW	
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG	
<RESISTOR>			
R001	1-414-233-22	INDUCTOR CHIP	0UH
R002	1-216-025-91	RES,CHIP	100 5% 1/10W
R003	1-216-073-00	RES,CHIP	10K 5% 1/10W
R004	1-216-025-91	RES,CHIP	100 5% 1/10W
R005	1-216-025-91	RES,CHIP	100 5% 1/10W
R008	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R010	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R011	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R012	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R013	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R014	1-216-025-91	RES,CHIP	100 5% 1/10W
R015	1-216-025-91	RES,CHIP	100 5% 1/10W
R016	1-216-025-91	RES,CHIP	100 5% 1/10W
R018	1-216-033-00	RES,CHIP	220 5% 1/10W
R019	1-216-073-00	RES,CHIP	10K 5% 1/10W

A (EXCEPT KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R021	1-216-073-00	RES,CHIP 10K	5% 1/10W	R309	1-216-025-91	RES,CHIP 100	5% 1/10W
R022	1-216-025-91	RES,CHIP 100	5% 1/10W	R310	1-216-025-91	RES,CHIP 100	5% 1/10W
R023	1-216-049-91	RES,CHIP 1K	5% 1/10W	R311	1-216-017-91	RES,CHIP 47	5% 1/10W
R024	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R312	1-216-041-00	RES,CHIP 470	5% 1/10W
R025	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R313	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R026	1-216-063-91	RES,CHIP 3.9K	5% 1/10W	R314	1-216-043-91	RES,CHIP 560	5% 1/10W
R027	1-216-049-91	RES,CHIP 1K	5% 1/10W	R316	1-216-053-00	RES,CHIP 1.5K	5% 1/10W
R028	1-216-073-00	RES,CHIP 10K	5% 1/10W	R317	1-216-077-00	RES,CHIP 15K	5% 1/10W
		(KV-XF34M31 ONLY)		R318	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R029	1-216-049-91	RES,CHIP 1K	5% 1/10W	R319	1-216-025-91	RES,CHIP 100	5% 1/10W
R031	1-216-049-91	RES,CHIP 1K	5% 1/10W	R320	1-216-065-91	RES,CHIP 4.7K	5% 1/10W
R032	1-216-025-91	RES,CHIP 100	5% 1/10W	R321	1-216-073-00	RES,CHIP 10K	5% 1/10W
R034	1-216-049-91	RES,CHIP 1K	5% 1/10W	R322	1-216-033-00	RES,CHIP 220	5% 1/10W
R035	1-216-025-91	RES,CHIP 100	5% 1/10W	R326	1-216-029-00	RES,CHIP 150	5% 1/10W
R036	1-216-025-91	RES,CHIP 100	5% 1/10W	R327	1-216-033-00	RES,CHIP 220	5% 1/10W
R037	1-216-025-91	RES,CHIP 100	5% 1/10W	R331	1-216-295-91	SHORT 0	
R038	1-216-049-91	RES,CHIP 1K	5% 1/10W	R332	1-216-033-00	RES,CHIP 220	5% 1/10W
R040	1-216-025-91	RES,CHIP 100	5% 1/10W	R333	1-216-083-00	RES,CHIP 27K	5% 1/10W
R041	1-216-025-91	RES,CHIP 100	5% 1/10W	R334	1-208-291-11	RES,CHIP 4.7M	5% 1/10W
R042	1-216-295-91	SHORT 0		R335	1-216-045-00	RES,CHIP 680	5% 1/10W
R043	1-216-025-91	RES,CHIP 100	5% 1/10W	R338	1-216-037-00	RES,CHIP 330	5% 1/10W
R044	1-216-025-91	RES,CHIP 100	5% 1/10W	R339	1-216-033-00	RES,CHIP 220	5% 1/10W
R045	1-414-233-22	INDUCTOR CHIP 0UH		R340	1-216-025-91	RES,CHIP 100	5% 1/10W
R046	1-216-049-91	RES,CHIP 1K	5% 1/10W	R345	1-216-073-00	RES,CHIP 10K	5% 1/10W
R047	1-414-233-22	INDUCTOR CHIP 0UH		R346	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R048	1-216-073-00	RES,CHIP 10K	5% 1/10W	R347	1-216-051-00	RES,CHIP 1.2K	5% 1/10W
R049	1-216-073-00	RES,CHIP 10K	5% 1/10W	R348	1-216-675-11	METAL CHIP 10K	0.50% 1/10W
R050	1-216-073-00	RES,CHIP 10K	5% 1/10W	R349	1-216-073-00	RES,CHIP 10K	5% 1/10W
R052	1-216-053-00	RES,CHIP 1.5K	5% 1/10W	R350	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R053	1-216-049-91	RES,CHIP 1K	5% 1/10W	R351	1-216-049-91	RES,CHIP 1K	5% 1/10W
R054	1-216-049-91	RES,CHIP 1K	5% 1/10W	R354	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R055	1-216-073-00	RES,CHIP 10K	5% 1/10W	R355	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R056	1-216-073-00	RES,CHIP 10K	5% 1/10W	R356	1-216-057-00	RES,CHIP 2.2K	5% 1/10W
R061	1-216-295-91	SHORT 0		R357	1-216-079-00	RES,CHIP 18K	5% 1/10W
R062	1-216-041-00	RES,CHIP 470	5% 1/10W	R358	1-216-049-91	RES,CHIP 1K	5% 1/10W
R063	1-216-041-00	RES,CHIP 470	5% 1/10W	R359	1-216-033-00	RES,CHIP 220	5% 1/10W
R064	1-216-041-00	RES,CHIP 470	5% 1/10W	R360	1-216-033-00	RES,CHIP 220	5% 1/10W
R065	1-216-041-00	RES,CHIP 470	5% 1/10W	R361	1-216-073-00	RES,CHIP 10K	5% 1/10W
R066	1-216-049-91	RES,CHIP 1K	5% 1/10W	R362	1-216-075-00	RES,CHIP 12K	5% 1/10W
R101	1-216-025-91	RES,CHIP 100	5% 1/10W	R363	1-216-079-00	RES,CHIP 18K	5% 1/10W
		(KV-XF34M31 ONLY)		R364	1-216-295-91	SHORT 0	
R102	1-216-025-91	RES,CHIP 100	5% 1/10W	R365	1-216-033-00	RES,CHIP 220	5% 1/10W
		(KV-XF34M31 ONLY)		R366	1-216-073-00	RES,CHIP 10K	5% 1/10W
R105	1-216-295-91	SHORT 0		R367	1-216-073-00	RES,CHIP 10K	5% 1/10W
R109	1-216-041-00	RES,CHIP 470	5% 1/10W	R368	1-216-073-00	RES,CHIP 10K	5% 1/10W
R111	1-216-025-91	RES,CHIP 100	5% 1/10W	R370	1-216-033-00	RES,CHIP 220	5% 1/10W
R112	1-216-025-91	RES,CHIP 100	5% 1/10W	R373	1-216-025-91	RES,CHIP 100	5% 1/10W
R113	1-216-025-91	RES,CHIP 100	5% 1/10W	R375	1-216-025-91	RES,CHIP 100	5% 1/10W
		(KV-XF34M31 ONLY)		R376	1-216-081-00	RES,CHIP 22K	5% 1/10W
R225	1-216-033-00	RES,CHIP 220	5% 1/10W	R377	1-216-121-91	RES,CHIP 1M	5% 1/10W
R226	1-216-033-00	RES,CHIP 220	5% 1/10W	R378	1-216-031-00	RES,CHIP 180	5% 1/10W
R227	1-216-033-00	RES,CHIP 220	5% 1/10W	R500	1-249-417-11	CARBON 1K	5% 1/4W
R237	1-216-295-91	SHORT 0		R501	1-216-049-91	RES,CHIP 1K	5% 1/10W
R301	1-216-113-00	RES,CHIP 470K	5% 1/10W	R505	1-216-113-00	RES,CHIP 470K	5% 1/10W
R302	1-216-295-91	SHORT 0		R506	1-216-079-00	RES,CHIP 18K	5% 1/10W
R303	1-216-049-91	RES,CHIP 1K	5% 1/10W	R507	1-249-389-11	CARBON 4.7	5% 1/4W F
R304	1-216-073-00	RES,CHIP 10K	5% 1/10W	R508	1-215-909-11	METAL OXIDE 47	5% 3W F
R306	1-216-085-00	RES,CHIP 33K	5% 1/10W				
R308	1-216-025-91	RES,CHIP 100	5% 1/10W				

KV-XF34M31/XF34M50/XF34M80/XF34M93

RM-954

RM-954

RM-954

RM-953

A (EXCEPT
KV-XF34M93)The components identified by shading
and mark Δ are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R509	1-216-474-11	METAL OXIDE	82	5%	3W	F	
R510	1-216-424-11	METAL OXIDE	39	5%	1W	F	
R511	1-216-377-11	METAL OXIDE	4.7	5%	2W	F	
R512	1-249-432-11	CARBON	18K	5%	1/4W		
R513	1-215-485-00	METAL	470K	1%	1/4W		
R514	1-215-487-00	METAL	560K	1%	1/4W		
R515	1-216-353-00	METAL OXIDE	2.2	5%	1W	F	
R516	1-216-081-00	RES,CHIP	22K	5%	1/10W		
R517	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W		
R518	1-247-807-31	CARBON	100	5%	1/4W		
R519	1-215-906-11	METAL OXIDE	15	5%	3W	F	
R520	1-215-445-00	METAL	10K	1%	1/4W		
R522	1-216-675-11	METAL CHIP	10K	0.50%	1/10W		
R523	1-249-411-11	CARBON	330	5%	1/4W		
R525	1-218-776-11	METAL CHIP	1M	0.50%	1/10W		
R526	1-208-803-11	RES,CHIP	7.5K	0.50%	1/10W		
R527	1-216-001-00	RES,CHIP	10	5%	1/10W		
R528	1-216-683-11	METAL CHIP	22K	0.50%	1/10W		
R529	1-208-760-11	RES,CHIP	120	0.50%	1/10W		
R531	1-247-843-11	CARBON	3.3K	5%	1/4W		
R532	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R533	1-249-417-11	CARBON	1K	5%	1/4W		
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W	F	
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W		
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W		
R537	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W		
R539	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R542	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W	F	
R544	1-216-480-11	METAL OXIDE	820	5%	3W	F	
R545	1-216-077-00	RES,CHIP	15K	5%	1/10W		
R546	1-216-077-00	RES,CHIP	15K	5%	1/10W		
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W		
R548	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W		
R549	1-215-451-00	METAL	18K	1%	1/4W		
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R551	1-249-421-11	CARBON	2.2K	5%	1/4W		
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R553	1-215-453-00	METAL	22K	1%	1/4W		
R554	1-215-453-00	METAL	22K	1%	1/4W		
R556	1-215-437-00	METAL	4.7K	1%	1/4W		
R557	1-216-361-00	METAL OXIDE	0.22	5%	2W	F	
R558	1-247-843-11	CARBON	3.3K	5%	1/4W		
R559	1-249-429-11	CARBON	10K	5%	1/4W		
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R561	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R562	1-249-401-11	CARBON	47	5%	1/4W		
R564	1-216-691-11	METAL CHIP	47K	0.50%	1/10W		
R565	1-216-061-00	RES,CHIP	3.3K	5%	1/10W		
R568	1-249-383-11	CARBON	1.5	5%	1/4W	F	
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W		
R571	1-215-442-00	METAL	7.5K	1%	1/4W		
R575	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W		
R577	1-215-913-11	METAL OXIDE	220	5%	3W	F	
R578	1-216-369-00	METAL OXIDE	1	5%	2W	F	
R579	1-216-295-91	SHORT	0				
R580	1-216-699-11	METAL CHIP	100K	0.50%	1/10W		
R581	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W		
R582	1-216-295-91	SHORT	0				
R583	1-216-125-00	RES,CHIP	1.5M	5%	1/10W		
R584	1-216-065-91	RES,CHIP	4.7K	5%	1/10W		
R585	1-249-381-11	CARBON	1	5%	1/4W		
R587	1-208-849-11	RES,CHIP	620K	0.50%	1/10W		
R588	1-215-911-11	METAL OXIDE	100	5%	3W	F	
R589	1-215-886-11	METAL OXIDE	100	5%	2W	F	
R590	1-215-465-00	METAL	68K	1%	1/4W		
R591	1-260-288-11	CARBON	0.47	5%	1/2W	F	
R592	1-216-699-11	METAL CHIP	100K	0.50%	1/10W		
R593	1-260-288-11	CARBON	0.47	5%	1/2W	F	
R594	1-260-288-11	CARBON	0.47	5%	1/2W	F	
R596	1-216-480-11	METAL OXIDE	820	5%	3W	F	
R597	1-247-750-11	CARBON	680	5%	1/2W	F	
R598	1-249-438-11	CARBON	56K	5%	1/4W		
R599	1-249-389-11	CARBON	4.7	5%	1/4W		
R600	1-249-438-11	CARBON	56K	5%	1/4W		
R601	1-249-417-11	CARBON	1K	5%	1/4W	F	
R602	1-249-389-11	CARBON	4.7	5%	1/4W	F	
R603	1-215-485-00	METAL	470K	1%	1/4W		
R604	1-216-097-91	RES,CHIP	100K	5%	1/10W		
R607	1-249-425-11	CARBON	4.7K	5%	1/4W		
R608	1-240-205-91	CARBON	22M	5%	1/2W		
R609	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R610	1-216-073-00	RES,CHIP	10K	5%	1/10W		
R611	1-216-089-91	RES,CHIP	47K	5%	1/10W		
R612	1-216-045-00	RES,CHIP	680	5%	1/10W		
R614	1-216-041-00	RES,CHIP	470	5%	1/10W		
R615	1-216-366-00	METAL OXIDE	0.56	5%	2W	F	
R616	1-260-302-51	CARBON	6.8	5%	1/2W	F	
R617	1-247-791-91	CARBON	22	5%	1/4W		
R619	1-260-128-11	CARBON	270K	5%	1/2W		
R621	1-215-859-00	METAL OXIDE	22	5%	1W	F	
R623	1-216-095-00	RES,CHIP	82K	5%	1/10W		
R624	1-216-089-91	RES,CHIP	47K	5%	1/10W		
R626	1-216-049-91	RES,CHIP	1K	5%	1/10W		
R627	1-240-251-11	CMT,MELF	6.8	5%	10W		
R629	1-247-747-11	CARBON	470	5%	1/2W	F	
R630	1-249-429-11	CARBON	10K	5%	1/4W	F	
R631	1-216-089-91	RES,CHIP	47K	5%	1/10W		
R632	1-220-886-11	FUSIBLE	0.1	10%	1W	F	
R634	Δ 1-218-265-91	METAL	8.2M	5%	1W		
R635	1-216-492-11	METAL OXIDE	82K	5%	3W	F	
R636	1-215-924-00	METAL OXIDE	15K	5%	3W	F	
R637	1-216-492-11	METAL OXIDE	82K	5%	3W	F	
R639	1-216-361-21	METAL OXIDE	0.22	5%	2W	F	
R640	1-249-415-11	CARBON	680	5%	1/4W		
R641	1-216-361-21	METAL OXIDE	0.22	5%	2W	F	
R642	1-249-419-11	CARBON	1.5K	5%	1/4W		
R643	1-247-843-11	CARBON	3.3K	5%	1/4W		
R644	1-249-419-11	CARBON	1.5K	5%	1/4W		
R646	1-215-924-00	METAL OXIDE	15K	5%	3W	F	
R647	1-249-387-11	CARBON	3.3	5%	1/4W		
R648	1-216-057-00	RES,CHIP	2.2K	5%	1/10W		
R649	1-249-417-11	CARBON	1K	5%	1/4W		

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

A (EXCEPT
KV-XF34M93)

A (KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R650	1-215-882-00	METAL OXIDE	22	5%	2W	F
R652	1-215-925-11	METAL OXIDE	22K	5%	3W	F
R653	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F
R654	1-216-369-00	METAL OXIDE	1	5%	2W	F
R656	1-249-417-11	CARBON	1K	5%	1/4W	
R657	1-260-127-11	CARBON	220K	5%	1/2W	
R659	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R660	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R661	1-215-873-00	METAL OXIDE	4.7K	5%	1W	F
R909	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R910	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	

<RELAY>

RY600 \triangle	1-755-040-11	RELAY
RY601 \triangle	1-755-266-11	RELAY, AC POWER

<SWITCH>

S501	1-572-707-11	SWITCH, LEVER
S502	1-572-707-11	SWITCH, LEVER

<TRANSFORMER>

T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE
T503 \triangle	1-453-298-11	TRANSFORMER ASSY, FLYBACK (NX-4009//M3P) (EXCEPT KV-XF34M31/XF34M80(ME))
\triangle	1-453-298-31	TRANSFORMER ASSY, FLYBACK (NX-4009//M3P) (KV-XF34M31)
\triangle	1-453-298-21	TRANSFORMER ASSY, FLYBACK (NX-4009//M3P) (XF34M80(ME))
T504	1-431-475-11	TRANSFORMER, HORIZONTAL LINEAR
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)
T601	1-431-536-11	TRANSFORMER, LINE FILTER
T603 \triangle	1-431-976-11	TRANSFORMER, CONVERTER (SRT)
T604 \triangle	1-431-852-11	TRANSFORMER, CONVERTER (SRT)

<THERMISTOR>

THP600	1-809-827-11	THERMISTOR, POSITIVE
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<TUNER>

TU101	8-598-451-00	TUNER, FSS BTF-WG441 (KV-XF34M31)
TU101	8-598-449-00	TUNER, FSS BTF-LG433 (KV-XF34M50/XF34M80)

<CRYSTAL>

X001	1-781-174-21	VIBRATOR, CERAMIC
X301	1-781-134-21	VIBRATOR, CRYSTAL
X302	1-781-132-21	VIBRATOR, CRYSTAL

REF. NO.	PART NO.	DESCRIPTION	REMARK		
* A-1298-873-A		A BOARD, COMPLETE (KV-XF34M93) *****			
	4-382-854-11	SCREW (M3X10), P, SW (+)			
	4-382-854-21	SCREW (M3X14), P, SW (+)			
<CAPACITOR>					
C004	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C005	1-163-001-11	CERAMIC CHIP	220PF	10%	50V
C006	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C007	1-126-933-11	ELECT	100MF	20%	16V
C013	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C014	1-126-967-11	ELECT	47MF	20%	50V
C015	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C016	1-163-243-11	CERAMIC CHIP	47PF	5%	50V
C017	1-163-113-00	CERAMIC CHIP	68PF	5%	50V
C019	1-104-665-11	ELECT	100MF	20%	25V
C022	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C023	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C024	1-163-227-11	CERAMIC CHIP	10PF	0.5PF	50V
C026	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C027	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C028	1-163-037-11	CERAMIC CHIP	0.022MF	10%	50V
C030	1-126-965-11	ELECT	22MF	20%	50V
C031	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C032	1-107-823-11	CERAMIC CHIP	0.47MF	10%	16V
C034	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C041	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C042	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C043	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C044	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C047	1-163-251-11	CERAMIC CHIP	100PF	5%	50V
C103	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C104	1-126-933-11	ELECT	100MF	20%	16V
C107	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C108	1-126-933-11	ELECT	100MF	20%	16V
C109	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C110	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C111	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C112	1-126-933-11	ELECT	100MF	20%	16V
C113	1-126-967-11	ELECT	47MF	20%	50V
C114	1-126-967-11	ELECT	47MF	20%	50V
C115	1-126-967-11	ELECT	47MF	20%	50V
C116	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C117	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C300	1-164-505-11	CERAMIC CHIP	2.2MF		16V
C301	1-126-935-11	ELECT	470MF	20%	16V
C302	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C303	1-126-959-11	ELECT	0.47MF	20%	50V
C304	1-126-967-11	ELECT	47MF	20%	50V
C305	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C306	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C307	1-163-233-11	CERAMIC CHIP	18PF	5%	50V
C308	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C309	1-126-957-11	ELECT	0.22MF	20%	50V
C311	1-126-964-11	ELECT	10MF	20%	50V
C312	1-164-346-11	CERAMIC CHIP	1MF		16V

KV-XF34M31/XF34M50/XF34M80/XF34M93

RM-954

RM-954

RM-954

RM-953

A (KV-XF34M93)

The components identified by shading and mark Δ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C313	1-164-346-11	CERAMIC CHIP	1MF	16V	
C314	1-164-346-11	CERAMIC CHIP	1MF	16V	
C315	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C316	1-126-967-11	ELECT	47MF	20%	50V
C317	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C318	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C319	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C320	1-163-031-11	CERAMIC CHIP	0.01MF		50V
C322	1-163-005-11	CERAMIC CHIP	470PF	10%	50V
C323	1-126-965-11	ELECT	22MF	20%	50V
C324	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C325	1-126-960-11	ELECT	1MF	20%	50V
C327	1-126-965-11	ELECT	22MF	20%	50V
C328	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C329	1-126-965-11	ELECT	22MF	20%	50V
C330	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C331	1-126-963-11	ELECT	4.7MF	20%	50V
C332	1-126-963-11	ELECT	4.7MF	20%	50V
C335	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C336	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V
C337	1-126-961-11	ELECT	2.2MF	20%	50V
C338	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C341	1-115-340-11	CERAMIC CHIP	0.22MF	10%	25V
C342	1-163-259-91	CERAMIC CHIP	220PF	5%	50V
C502	1-163-145-00	CERAMIC CHIP	0.0015MF	5%	50V
C503	1-126-964-11	ELECT	10MF	20%	50V
C504	1-163-007-11	CERAMIC CHIP	680PF	10%	50V
C506	1-107-638-11	ELECT	33MF	20%	160V
C507	1-102-244-00	CERAMIC	220PF	10%	500V
C510	1-102-074-00	CERAMIC	0.001MF	10%	50V
C513	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C514	1-106-383-00	MYLAR	0.047MF	10%	200V
C517	1-164-182-11	CERAMIC CHIP	0.0033MF	10%	50V
C518	1-126-933-11	ELECT	100MF	20%	16V
C519	1-102-212-00	CERAMIC	820PF	10%	500V
C521	1-104-666-11	ELECT	220MF	20%	25V
C522	1-126-933-11	ELECT	100MF	20%	16V
C523	1-162-318-11	CERAMIC	0.001MF	10%	500V
C524	1-126-967-11	ELECT	47MF	20%	50V
C526	1-130-495-00	MYLAR	0.1MF	5%	50V
C527	1-102-820-00	CERAMIC	330PF	5%	50V
C528	1-162-116-00	CERAMIC	680PF	10%	2KV
C530	1-137-372-11	FILM	0.022MF	5%	50V
C531	1-107-903-11	ELECT	2.2MF	20%	50V
C532	1-128-528-11	ELECT	470MF	20%	25V
C533	1-128-528-11	ELECT	470MF	20%	25V
C536	1-136-165-00	FILM	0.1MF	5%	50V
C537	1-107-911-11	ELECT	220MF	20%	50V
C538	1-136-544-11	FILM	0.023MF	3%	2KV
C539	1-130-118-91	FILM	0.051MF	5%	400V
C540	1-136-171-00	FILM	0.33MF	5%	50V
C543	1-162-116-00	CERAMIC	680PF	10%	2KV
C546	1-165-319-11	CERAMIC CHIP	0.1MF		50V
C549	1-163-017-00	CERAMIC CHIP	0.0047MF	10%	50V
C550	1-106-220-00	MYLAR	0.1MF	10%	100V
C551	1-126-960-11	ELECT	1MF	20%	50V
C552	1-162-116-00	CERAMIC	680PF	10%	2KV

REF. NO.	PART NO.	DESCRIPTION	REMARK		
C553	1-162-116-00	CERAMIC	680PF	10%	2KV
C554	1-106-361-00	MYLAR	0.0056MF	10%	100V
C556	1-128-528-11	ELECT	470MF	20%	25V
C557	1-126-941-11	ELECT	470MF	20%	25V
C558	1-123-024-21	ELECT	33MF		160V
C560	1-102-228-00	CERAMIC	470PF	10%	500V
C561	1-129-928-00	FILM	0.0027MF	5%	630V
C562	1-102-228-00	CERAMIC	470PF	10%	500V
C563	1-163-021-91	CERAMIC CHIP	0.01MF	10%	50V
C564	1-163-038-91	CERAMIC CHIP	0.1MF		25V
C565	1-107-655-11	ELECT	47MF	20%	250V
C566	1-102-244-00	CERAMIC	220PF	10%	500V
C567	1-117-813-11	FILM	0.75MF	5%	250V
C568	1-102-228-00	CERAMIC	470PF	10%	500V
C570	1-117-674-71	FILM	1.8MF	5%	250V
C571	1-126-959-11	ELECT	0.47MF	20%	50V
C572	1-115-514-11	FILM	0.22MF	5%	250V
C573	1-106-387-00	MYLAR	0.068MF	10%	200V
C574	1-104-709-11	ELECT	4.7MF	0	160V
C576	1-130-495-00	MYLAR	0.1MF	5%	50V
C577	1-115-516-11	FILM	0.33MF	5%	250V
C579	1-102-038-00	CERAMIC	0.001MF		500V
C600	Δ 1-104-705-51	FILM	0.1MF	20%	250V
C601	1-136-601-11	FILM	0.01MF	5%	630V
C603	1-126-967-11	ELECT	47MF	20%	50V
C604	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V
C605	Δ 1-119-886-51	CERAMIC	470PF	10%	250V
C606	Δ 1-119-886-51	CERAMIC	470PF	10%	250V
C607	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C608	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C609	1-126-968-11	ELECT	100MF	20%	50V
C610	1-126-964-11	ELECT	10MF	20%	50V
C611	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C612	1-161-830-00	CERAMIC	0.0047MF	99%	500V
C613	1-125-906-11	ELECT	560MF	20%	450V
C614	1-126-964-11	ELECT	10MF	20%	50V
C615	Δ 1-119-886-51	CERAMIC	470PF	10%	250V
C616	1-130-202-00	FILM	0.022MF	10%	400V
C617	1-107-792-11	CERAMIC	100PF	5%	1KV
C618	1-125-893-11	FILM	680PF	3%	1.5KV
C619	Δ 1-119-886-51	CERAMIC	470PF	10%	250V
C620	1-163-133-00	CERAMIC CHIP	470PF	5%	50V
C621	1-102-114-00	CERAMIC	470PF	10%	50V
C622	1-102-119-00	CERAMIC	0.0015MF	10%	50V
C623	1-104-665-11	ELECT	100MF	20%	25V
C624	1-125-772-91	CERAMIC	1500PF	10%	2KV
C625	1-102-002-00	CERAMIC	680PF	10%	500V
C626	1-102-002-00	CERAMIC	680PF	10%	500V
C627	1-102-002-00	CERAMIC	680PF	10%	500V
C628	1-126-952-11	ELECT	1000MF	20%	35V
C629	1-126-964-11	ELECT	10MF	20%	50V
C630	1-125-494-11	ELECT(BLOCK)	560MF	20%	160V
C631	1-128-550-11	ELECT	2200MF	20%	50V
C632	1-126-936-11	ELECT	3300MF	20%	16V
C633	1-104-999-11	MYLAR	0.1MF	10%	200V
C634	1-126-934-11	ELECT	220MF	20%	16V
C635	1-104-665-11	ELECT	100MF	20%	10V
C636	1-104-760-11	CERAMIC CHIP	0.047MF	10%	50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C638	1-161-830-00	CERAMIC 0.0047MF	500V
C641	1-102-002-00	CERAMIC 680PF 10%	500V
C642	1-126-943-11	ELECT 2200MF 20%	25V
C643	1-126-933-11	ELECT 100MF 20%	16V
C644	1-104-331-11	CERAMIC 0.0022MF 10%	1KV
C645	1-137-605-11	FILM 0.01MF 10%	250V
C646	1-107-679-91	ELECT 10MF 20%	450V
C647	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C649	1-126-940-11	ELECT 330MF 20%	25V
C650	1-163-275-11	CERAMIC CHIP 0.001MF 5%	50V
C651	1-163-133-00	CERAMIC CHIP 470PF 5%	50V
C652	1-126-965-11	ELECT 22MF 20%	50V
C653	1-126-967-11	ELECT 47MF 20%	50V
C655 Δ	1-119-886-51	CERAMIC 470PF 10%	250V
C657	1-101-821-00	CERAMIC 0.0022MF	500V
C912	1-164-004-11	CERAMIC CHIP 0.1MF 10%	25V
C913	1-126-933-11	ELECT 100MF 20%	16V
<CONNECTOR>			
CN101 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN102 *	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN104	1-695-915-11	TAB (CONTACT)	
CN105 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN106 *	1-564-506-11	PLUG, CONNECTOR 3P	
CN201 *	1-564-510-11	PLUG, CONNECTOR 7P	
CN202 *	1-508-879-11	BASE POST	
CN302 *	1-779-889-11	CONNECTOR, BOARD TO BOARD 8P	
CN303 *	1-779-890-11	CONNECTOR, BOARD TO BOARD 10P	
CN304 *	1-766-955-11	CONNECTOR, BOARD TO BOARD 11P	
CN305 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN503 *	1-564-510-11	PLUG, CONNECTOR 7P	
CN504	1-695-915-11	TAB (CONTACT)	
CN505 Δ	1-508-765-11	PIN, CONNECTOR (5MM PITCH) 4P	
CN507 *	1-564-509-11	PLUG, CONNECTOR 6P	
CN508	1-695-915-11	TAB (CONTACT)	
CN509	1-695-915-11	TAB (CONTACT)	
CN510 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN601 *	1-580-843-11	PIN, CONNECTOR (POWER)	
CN602 Δ	1-573-963-11	PIN, CONNECTOR (5MM PITCH) 2P	
CN603 *	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN604 *	1-573-963-11	PIN, CONNECTOR (PC BOARD) 3P	
CN605 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN608 *	1-564-507-11	PLUG, CONNECTOR 4P	
CN904 *	1-564-512-11	PLUG, CONNECTOR 9P	
<DIODE>			
D001	8-719-988-61	DIODE 1SS355TE-17	
D002	8-719-988-61	DIODE 1SS355TE-17	
D003	8-719-988-61	DIODE 1SS355TE-17	
D004	8-719-988-61	DIODE 1SS355TE-17	
D005	8-719-988-61	DIODE 1SS355TE-17	
D006	1-216-295-91	SHORT 0	
D100	8-719-404-50	DIODE MA111-TX	
D300	1-216-295-91	SHORT 0	
D301	8-719-988-61	DIODE 1SS355TE-17	
D303	8-719-988-61	DIODE 1SS355TE-17	

REF. NO.	PART NO.	DESCRIPTION	REMARK
D304	8-719-988-61	DIODE 1SS355TE-17	
D305	8-719-988-61	DIODE 1SS355TE-17	
D306	8-719-988-61	DIODE 1SS355TE-17	
D307	8-719-988-61	DIODE 1SS355TE-17	
D308	8-719-988-61	DIODE 1SS355TE-17	
D309	8-719-159-10	DIODE RD5.1SB-T2	
D311	8-719-988-61	DIODE 1SS355TE-17	
D312	8-719-988-61	DIODE 1SS355TE-17	
D313	8-719-988-61	DIODE 1SS355TE-17	
D315	8-719-988-61	DIODE 1SS355TE-17	
D316	8-719-158-35	DIODE RD9.1SB	
D504	8-719-302-43	DIODE EL1Z	
D505	8-719-988-61	DIODE 1SS355TE-17	
D506	8-719-911-19	DIODE 1SS119-25	
D507	8-719-988-61	DIODE 1SS355TE-17	
D508	8-719-988-61	DIODE 1SS355TE-17	
D509	8-719-158-15	DIODE RD5.6SB	
D510	8-719-988-61	DIODE 1SS355TE-17	
D511	8-719-988-61	DIODE 1SS355TE-17	
D512	8-719-988-61	DIODE 1SS355TE-17	
D513	8-719-908-03	DIODE GP08D	
D517	8-719-061-21	DIODE FMQ-G5FMS	
D520	8-719-404-50	DIODE MA111-TX	
D521	8-719-302-43	DIODE EL1Z	
D522	8-719-028-45	DIODE D2L20U	
D523	8-719-028-45	DIODE D2L20U	
D525	8-719-911-19	DIODE 1SS119-25	
D526	8-719-150-92	DIODE RD33EB3T	
D527	8-719-908-03	DIODE GP08D	
D528	8-719-908-03	DIODE GP08D	
D529	8-719-028-72	DIODE RGP02-17EL-6433	
D530	8-719-071-39	DIODE FMU-G26S	
D531	8-719-988-61	DIODE 1SS355TE-17	
D532	8-719-988-61	DIODE 1SS355TE-17	
D600	8-719-911-19	DIODE 1SS119-25	
D602	8-719-911-19	DIODE 1SS119-25	
D603	8-719-150-92	DIODE RD33EB3T	
D604	8-719-028-72	DIODE RGP02-17EL-6433	
D605	8-719-510-53	DIODE D4SB60L	
D606	8-719-108-18	THYRISTOR 5P6M	
D607	8-719-404-50	DIODE MA111-TX	
D608	8-719-110-53	DIODE RD20ESB2	
D609	8-719-311-31	DIODE RU-1P	
D610	8-719-043-76	DIODE AK04V0	
D611	8-719-046-74	DIODE AU-01Z-V1	
D612	8-719-071-38	DIODE D5S6M	
D613	8-719-046-74	DIODE AU-01Z-V1	
D614	8-719-046-74	DIODE AU-01Z-V1	
D620	8-719-110-72	DIODE RD30ESB2	
D621	8-719-071-38	DIODE D5S6M	
D622	8-719-071-39	DIODE FMU-G26S	
D623	8-719-978-65	DIODE DTZ-TT11-15B	
D624	8-719-404-50	DIODE MA111-TX	
D625	8-719-158-39	DIODE RD10SB	
D628	8-719-911-19	DIODE 1SS119-25	
D629	8-719-510-37	DIODE D5LC20U	
D630	8-719-510-37	DIODE D5LC20U	

A (KV-XF34M93)

The components identified by shading
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Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
D631	8-719-068-00	DIODE ERC04-06SE		JR013	1-216-295-91	SHORT	0
D632	8-719-068-00	DIODE ERC04-06SE		JR014	1-216-295-91	SHORT	0
D633	8-719-948-45	DIODE ERA22-08		JR015	1-216-295-91	SHORT	0
D634	8-719-404-50	DIODE MA111-TX		JR016	1-216-295-91	SHORT	0
D635	8-719-404-50	DIODE MA111-TX		JR102	1-216-295-91	SHORT	0
D636	8-719-510-02	DIODE D1NS4		JR107	1-216-295-91	SHORT	0
D637	8-719-109-96	DIODE RD6.8ESB1		JR301	1-216-295-91	SHORT	0
D638	8-719-510-48	DIODE D1N20R		JR303	1-216-295-91	SHORT	0
<CONNECTOR>				JR500	1-216-295-91	SHORT	0
DY1	* \triangle 1-580-798-11	CONNECTOR PIN (DY) 6P		JR501	1-216-295-91	SHORT	0
<FERRITE BEAD>				JR502	1-216-295-91	SHORT	0
FB101	1-216-295-91	SHORT	0	JR600	1-216-295-91	SHORT	0
FB102	1-216-295-91	SHORT	0	<COIL>			
FB501	1-410-397-21	FERRITE	1.1UH	L002	1-414-856-11	INDUCTOR	10UH
FB502	1-410-397-21	FERRITE	1.1UH	L003	1-414-180-11	INDUCTOR	3.3UH
FB600	1-410-397-21	FERRITE	1.1UH	L005	1-414-233-22	INDUCTOR CHIP	0UH
FB601	1-410-397-21	FERRITE	1.1UH	L101	1-414-856-11	INDUCTOR	10UH
FB602	1-410-397-21	FERRITE	1.1UH	L102	1-414-856-11	INDUCTOR	10UH
FB603	1-410-397-21	FERRITE	1.1UH	L103	1-414-856-11	INDUCTOR	10UH
FB604	1-410-397-21	FERRITE	1.1UH	L104	1-414-856-11	INDUCTOR	10UH
FB605	1-412-911-31	FERRITE	0UH	L105	1-414-856-11	INDUCTOR	10UH
FB606	1-412-911-31	FERRITE	0UH	L301	1-414-189-31	INDUCTOR	100UH
FB607	1-410-397-21	FERRITE	1.1UH	L302	1-414-185-41	INDUCTOR	22UH
FB608	1-412-911-31	FERRITE	0UH	L501	1-412-525-31	INDUCTOR	10UH
FB611	1-410-397-21	FERRITE	1.1UH	L502	1-422-613-11	COIL, AIR CORE	
FB612	1-410-397-21	FERRITE	1.1UH	L503	1-412-525-31	INDUCTOR	10UH
FB613	1-410-397-21	FERRITE	1.1UH	L504	1-412-525-31	INDUCTOR	10UH
FB615	1-410-397-21	FERRITE	1.1UH	L505	1-412-525-31	INDUCTOR	10UH
<IC>				L506	1-412-525-31	INDUCTOR	10UH
IC001	8-752-903-51	IC CXP86461-608S		L507	1-459-111-00	INDUCTOR	10MMH
IC002	8-759-371-21	IC MM1319AFBE		L508	1-412-525-31	INDUCTOR	10UH
IC003	8-759-370-34	IC ST24C08FB6		L511	1-406-977-21	INDUCTOR	100UH
IC100	8-759-042-02	IC S-80743AL-A7-S		L512	1-412-549-31	INDUCTOR	1MMH
IC301	8-752-088-39	IC CXA2130S		L513	1-412-549-31	INDUCTOR	1MMH
IC502	8-759-700-07	IC NJM2903M		L515	1-459-104-00	COIL, WITH CORE	
IC503	8-759-980-58	IC TDA8172		L518	1-408-611-31	INDUCTOR	47UH
IC601	8-749-014-48	IC STR-F6656		L601	1-412-527-11	INDUCTOR	15UH
IC602	8-749-920-61	IC SE-135N		L905	1-414-856-11	INDUCTOR	10UH
IC603	8-759-701-59	IC NJM78M09FA		<PHOTO COUPLER>			
IC604	8-759-231-53	IC TA7805S		PH600	\triangle 8-749-924-35	PHOTO COUPLER ON3171-R	
<CHIP CONDUCTOR>				<TRANSISTOR>			
JR002	1-216-295-91	SHORT	0	Q001	8-729-216-22	TRANSISTOR 2SA1162-G	
JR004	1-216-295-91	SHORT	0	Q002	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR005	1-216-295-91	SHORT	0	Q003	8-729-027-23	TRANSISTOR DTA114EKA-T146	
JR006	1-216-295-91	SHORT	0	Q004	8-729-027-43	TRANSISTOR DTC114EKA-T146	
JR007	1-216-295-91	SHORT	0	Q101	8-729-230-49	TRANSISTOR 2SC2712-YG	
JR008	1-216-295-91	SHORT	0	Q301	8-729-216-22	TRANSISTOR 2SA1162-G	
JR010	1-216-295-91	SHORT	0	Q304	8-729-216-22	TRANSISTOR 2SA1162-G	
JR012	1-216-295-91	SHORT	0	Q305	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q306	8-729-216-22	TRANSISTOR 2SA1162-G	
				Q307	8-729-230-49	TRANSISTOR 2SC2712-YG	

A (KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
Q308	8-729-216-22	TRANSISTOR 2SA1162-G		R040	1-216-025-91	RES,CHIP	100 5% 1/10W
Q311	8-729-230-49	TRANSISTOR 2SC2712-YG		R041	1-216-025-91	RES,CHIP	100 5% 1/10W
Q312	8-729-216-22	TRANSISTOR 2SA1162-G					
Q313	8-729-230-49	TRANSISTOR 2SC2712-YG		R042	1-216-295-91	SHORT	0
Q315	1-801-806-11	TRANSISTOR DTC144EK-T146		R043	1-216-025-91	RES,CHIP	100 5% 1/10W
				R044	1-216-025-91	RES,CHIP	100 5% 1/10W
Q501	8-729-216-22	TRANSISTOR 2SA1162-G		R045	1-414-233-22	INDUCTOR CHIP	0UH
Q502	8-729-216-22	TRANSISTOR 2SA1162-G		R046	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q503	8-729-230-49	TRANSISTOR 2SC2712-YG					
Q505	8-729-931-45	TRANSISTOR IRF614		R047	1-414-233-22	INDUCTOR CHIP	0UH
Q506	8-729-140-96	TRANSISTOR 2SD774-34		R048	1-216-073-00	RES,CHIP	10K 5% 1/10W
				R049	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q507	8-729-216-22	TRANSISTOR 2SA1162-G		R050	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q509	8-729-230-49	TRANSISTOR 2SC2712-YG		R052	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
Q511	8-729-016-32	TRANSISTOR 2SC4927-01					
Q600	8-729-119-78	TRANSISTOR 2SC2785-HFE		R053	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q601	8-729-023-22	TRANSISTOR 2SD2114K		R054	1-216-049-91	RES,CHIP	1K 5% 1/10W
				R055	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q602	8-729-230-49	TRANSISTOR 2SC2712-YG		R056	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q603	8-729-027-23	TRANSISTOR DTA114EKA-T146		R061	1-216-295-91	SHORT	0
Q604	8-729-200-17	TRANSISTOR 2SA1091-O					
Q605	8-729-044-30	TRANSISTOR 2SK2845-LB102		R062	1-216-041-00	RES,CHIP	470 5% 1/10W
Q606	8-729-230-49	TRANSISTOR 2SC2712-YG		R063	1-216-041-00	RES,CHIP	470 5% 1/10W
				R064	1-216-041-00	RES,CHIP	470 5% 1/10W
Q607	8-729-922-37	TRANSISTOR 2SD2144S-UVW		R065	1-216-041-00	RES,CHIP	470 5% 1/10W
Q608	8-729-230-49	TRANSISTOR 2SC2712-YG		R066	1-216-049-91	RES,CHIP	1K 5% 1/10W
		<RESISTOR>		R101	1-216-025-91	RES,CHIP	100 5% 1/10W
				R102	1-216-025-91	RES,CHIP	100 5% 1/10W
R001	1-414-233-22	INDUCTOR CHIP	0UH	R105	1-216-295-91	SHORT	0
R002	1-216-025-91	RES,CHIP	100 5% 1/10W	R109	1-216-041-00	RES,CHIP	470 5% 1/10W
R003	1-216-073-00	RES,CHIP	10K 5% 1/10W	R111	1-216-025-91	RES,CHIP	100 5% 1/10W
R004	1-216-025-91	RES,CHIP	100 5% 1/10W				
R005	1-216-025-91	RES,CHIP	100 5% 1/10W	R112	1-216-025-91	RES,CHIP	100 5% 1/10W
				R113	1-216-025-91	RES,CHIP	100 5% 1/10W
R008	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R225	1-216-033-00	RES,CHIP	220 5% 1/10W
R010	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R226	1-216-033-00	RES,CHIP	220 5% 1/10W
R011	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R227	1-216-033-00	RES,CHIP	220 5% 1/10W
R012	1-216-065-91	RES,CHIP	4.7K 5% 1/10W				
R013	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	R237	1-216-295-91	SHORT	0
				R301	1-216-113-00	RES,CHIP	470K 5% 1/10W
R014	1-216-025-91	RES,CHIP	100 5% 1/10W	R302	1-216-295-91	SHORT	0
R015	1-216-025-91	RES,CHIP	100 5% 1/10W	R303	1-216-049-91	RES,CHIP	1K 5% 1/10W
R016	1-216-025-91	RES,CHIP	100 5% 1/10W	R304	1-216-073-00	RES,CHIP	10K 5% 1/10W
R017	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R018	1-216-033-00	RES,CHIP	220 5% 1/10W	R306	1-216-085-00	RES,CHIP	33K 5% 1/10W
				R308	1-216-025-91	RES,CHIP	100 5% 1/10W
R019	1-216-073-00	RES,CHIP	10K 5% 1/10W	R309	1-216-025-91	RES,CHIP	100 5% 1/10W
R021	1-216-073-00	RES,CHIP	10K 5% 1/10W	R310	1-216-025-91	RES,CHIP	100 5% 1/10W
R022	1-216-025-91	RES,CHIP	100 5% 1/10W	R315	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R023	1-216-049-91	RES,CHIP	1K 5% 1/10W				
R024	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R316	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
				R318	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R025	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R319	1-216-025-91	RES,CHIP	100 5% 1/10W
R026	1-216-063-91	RES,CHIP	3.9K 5% 1/10W	R320	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R027	1-216-049-91	RES,CHIP	1K 5% 1/10W	R321	1-216-073-00	RES,CHIP	10K 5% 1/10W
R028	1-216-073-00	RES,CHIP	10K 5% 1/10W				
R029	1-216-049-91	RES,CHIP	1K 5% 1/10W	R322	1-216-033-00	RES,CHIP	220 5% 1/10W
				R326	1-216-029-00	RES,CHIP	150 5% 1/10W
R031	1-216-049-91	RES,CHIP	1K 5% 1/10W	R327	1-216-033-00	RES,CHIP	220 5% 1/10W
R032	1-216-025-91	RES,CHIP	100 5% 1/10W	R328	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R034	1-216-049-91	RES,CHIP	1K 5% 1/10W	R329	1-216-041-00	RES,CHIP	470 5% 1/10W
R035	1-216-025-91	RES,CHIP	100 5% 1/10W				
R036	1-216-025-91	RES,CHIP	100 5% 1/10W	R331	1-216-295-91	SHORT	0
				R332	1-216-033-00	RES,CHIP	220 5% 1/10W
R037	1-216-025-91	RES,CHIP	100 5% 1/10W	R333	1-216-083-00	RES,CHIP	27K 5% 1/10W
R038	1-216-049-91	RES,CHIP	1K 5% 1/10W	R334	1-208-291-11	RES,CHIP	4.7M 5% 1/10W
R039	1-216-049-91	RES,CHIP	1K 5% 1/10W	R335	1-216-045-00	RES,CHIP	680 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK
R338	1-216-037-00	RES,CHIP	330	5%	1/10W
R339	1-216-033-00	RES,CHIP	220	5%	1/10W
R340	1-216-025-91	RES,CHIP	100	5%	1/10W
R345	1-216-073-00	RES,CHIP	10K	5%	1/10W
R346	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R347	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R348	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R349	1-216-073-00	RES,CHIP	10K	5%	1/10W
R350	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R351	1-216-049-91	RES,CHIP	1K	5%	1/10W
R354	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R355	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R356	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R357	1-216-079-00	RES,CHIP	18K	5%	1/10W
R358	1-216-049-91	RES,CHIP	1K	5%	1/10W
R359	1-216-033-00	RES,CHIP	220	5%	1/10W
R360	1-216-033-00	RES,CHIP	220	5%	1/10W
R361	1-216-073-00	RES,CHIP	10K	5%	1/10W
R362	1-216-075-00	RES,CHIP	12K	5%	1/10W
R363	1-216-079-00	RES,CHIP	18K	5%	1/10W
R364	1-216-295-91	SHORT	0		
R365	1-216-033-00	RES,CHIP	220	5%	1/10W
R366	1-216-073-00	RES,CHIP	10K	5%	1/10W
R367	1-216-073-00	RES,CHIP	10K	5%	1/10W
R368	1-216-073-00	RES,CHIP	10K	5%	1/10W
R370	1-216-033-00	RES,CHIP	220	5%	1/10W
R373	1-216-025-91	RES,CHIP	100	5%	1/10W
R376	1-216-081-00	RES,CHIP	22K	5%	1/10W
R377	1-216-121-91	RES,CHIP	1M	5%	1/10W
R378	1-216-295-91	SHORT	0		
R500	1-249-417-11	CARBON	1K	5%	1/4W
R501	1-216-049-91	RES,CHIP	1K	5%	1/10W
R505	1-216-113-00	RES,CHIP	470K	5%	1/10W
R506	1-216-079-00	RES,CHIP	18K	5%	1/10W
R507	1-249-389-11	CARBON	4.7	5%	1/4W F
R508	1-215-909-11	METAL OXIDE	47	5%	3W F
R509	1-216-474-11	METAL OXIDE	82	5%	3W F
R510	1-216-424-11	METAL OXIDE	39	5%	1W F
R511	1-216-377-11	METAL OXIDE	4.7	5%	2W F
R512	1-249-432-11	CARBON	18K	5%	1/4W
R513	1-215-485-00	METAL	470K	1%	1/4W
R514	1-215-487-00	METAL	560K	1%	1/4W
R515	1-216-353-00	METAL OXIDE	2.2	5%	1W F
R516	1-216-081-00	RES,CHIP	22K	5%	1/10W
R517	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R518	1-247-807-31	CARBON	100	5%	1/4W
R519	1-215-906-11	METAL OXIDE	15	5%	3W F
R520	1-215-445-00	METAL	10K	1%	1/4W
R522	1-216-675-11	METAL CHIP	10K	0.50%	1/10W
R523	1-249-411-11	CARBON	330	5%	1/4W
R525	1-218-776-11	METAL CHIP	1M	0.50%	1/10W
R526	1-208-803-11	RES,CHIP	7.5K	0.50%	1/10W
R527	1-216-001-00	RES,CHIP	10	5%	1/10W
R528	1-216-683-11	METAL CHIP	22K	0.50%	1/10W
R529	1-208-760-11	RES,CHIP	120	0.50%	1/10W
R531	1-247-843-11	CARBON	3.3K	5%	1/4W
R532	1-216-073-00	RES,CHIP	10K	5%	1/10W
R533	1-249-417-11	CARBON	1K	5%	1/4W

REF. NO.	PART NO.	DESCRIPTION			REMARK
R534	1-216-364-11	METAL OXIDE	0.39	5%	2W F
R535	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R536	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R537	1-216-673-11	METAL CHIP	8.2K	0.50%	1/10W
R539	1-216-049-91	RES,CHIP	1K	5%	1/10W
R540	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R541	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R542	1-216-097-91	RES,CHIP	100K	5%	1/10W
R543	1-216-437-00	METAL OXIDE	5.6K	5%	1W F
R544	1-216-480-11	METAL OXIDE	820	5%	3W F
R545	1-216-077-00	RES,CHIP	15K	5%	1/10W
R546	1-216-077-00	RES,CHIP	15K	5%	1/10W
R547	1-216-085-00	RES,CHIP	33K	5%	1/10W
R548	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R549	1-215-451-00	METAL	18K	1%	1/4W
R550	1-216-097-91	RES,CHIP	100K	5%	1/10W
R551	1-249-421-11	CARBON	2.2K	5%	1/4W
R552	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R553	1-215-453-00	METAL	22K	1%	1/4W
R554	1-215-453-00	METAL	22K	1%	1/4W
R556	1-215-437-00	METAL	4.7K	1%	1/4W
R557	1-216-361-00	METAL OXIDE	0.22	5%	2W F
R558	1-247-843-11	CARBON	3.3K	5%	1/4W
R559	1-249-429-11	CARBON	10K	5%	1/4W
R560	1-216-073-00	RES,CHIP	10K	5%	1/10W
R561	1-216-049-91	RES,CHIP	1K	5%	1/10W
R562	1-249-401-11	CARBON	47	5%	1/4W
R564	1-216-691-11	METAL CHIP	47K	0.50%	1/10W
R565	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R568	1-249-383-11	CARBON	1.5	5%	1/4W F
R570	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R571	1-215-442-00	METAL	7.5K	1%	1/4W
R575	1-216-665-11	METAL CHIP	3.9K	0.50%	1/10W
R577	1-215-913-11	METAL OXIDE	220	5%	3W F
R578	1-216-369-00	METAL OXIDE	1	5%	2W F
R579	1-216-295-91	SHORT	0		
R580	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R581	1-208-798-11	RES,CHIP	4.7K	0.50%	1/10W
R582	1-216-295-91	SHORT	0		
R583	1-216-125-00	RES,CHIP	1.5M	5%	1/10W
R584	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R585	1-249-381-11	CARBON	1	5%	1/4W
R587	1-208-849-11	RES,CHIP	620K	0.50%	1/10W
R588	1-215-911-11	METAL OXIDE	100	5%	3W F
R589	1-215-886-11	METAL OXIDE	100	5%	2W F
R590	1-215-465-00	METAL	68K	1%	1/4W
R591	1-260-288-11	CARBON	0.47	5%	1/2W F
R592	1-216-699-11	METAL CHIP	100K	0.50%	1/10W
R593	1-260-288-11	CARBON	0.47	5%	1/2W F
R594	1-260-288-11	CARBON	0.47	5%	1/2W F
R596	1-216-480-11	METAL OXIDE	820	5%	3W F
R597	1-247-750-11	CARBON	680	5%	1/2W F
R598	1-249-438-11	CARBON	56K	5%	1/4W
R599	1-249-389-11	CARBON	4.7	5%	1/4W
R600	1-249-438-11	CARBON	56K	5%	1/4W
R601	1-249-417-11	CARBON	1K	5%	1/4W F
R602	1-249-389-11	CARBON	4.7	5%	1/4W F

The components identified by shading and mark \triangle are critical for safety.
Replace only with part number specified.

A (KV-XF34M93)**B₂****B₃** (EXCEPT KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK
R603	1-215-485-00	METAL	470K 1% 1/4W
R604	1-216-097-91	RES,CHIP	100K 5% 1/10W
R607	1-249-425-11	CARBON	4.7K 5% 1/4W
R608	1-240-205-91	CARBON	22M 5% 1/2W
R609	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R610	1-216-073-00	RES,CHIP	10K 5% 1/10W
R611	1-216-089-91	RES,CHIP	47K 5% 1/10W
R612	1-216-045-00	RES,CHIP	680 5% 1/10W
R614	1-216-041-00	RES,CHIP	470 5% 1/10W
R615	1-216-366-00	METAL OXIDE	0.56 5% 2W F
R616	1-260-302-51	CARBON	6.8 5% 1/2W F
R617	1-247-791-91	CARBON	22 5% 1/4W
R619	1-260-128-11	CARBON	270K 5% 1/2W
R621	1-215-859-00	METAL OXIDE	22 5% 1W F
R623	1-216-095-00	RES,CHIP	82K 5% 1/10W
R624	1-216-089-91	RES,CHIP	47K 5% 1/10W
R626	1-216-049-91	RES,CHIP	1K 5% 1/10W
R627	1-240-251-11	CMT,MELF	6.8 5% 10W
R629	1-247-747-11	CARBON	470 5% 1/2W F
R630	1-249-429-11	CARBON	10K 5% 1/4W F
R631	1-216-089-91	RES,CHIP	47K 5% 1/10W
R632	1-220-886-11	FUSIBLE	0.1 10% 1W F
R634 \triangle	1-218-265-91	METAL	8.2M 5% 1W
R635	1-216-492-11	METAL OXIDE	82K 5% 3W F
R636	1-215-924-00	METAL OXIDE	15K 5% 3W F
R637	1-216-492-11	METAL OXIDE	82K 5% 3W F
R639	1-216-361-21	METAL OXIDE	0.22 5% 2W F
R640	1-249-415-11	CARBON	680 5% 1/4W
R641	1-216-361-21	METAL OXIDE	0.22 5% 2W F
R642	1-249-419-11	CARBON	1.5K 5% 1/4W
R643	1-247-843-11	CARBON	3.3K 5% 1/4W
R644	1-249-419-11	CARBON	1.5K 5% 1/4W
R646	1-215-924-00	METAL OXIDE	15K 5% 3W F
R647	1-249-387-11	CARBON	3.3 5% 1/4W
R648	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R649	1-249-417-11	CARBON	1K 5% 1/4W
R650	1-215-882-00	METAL OXIDE	22 5% 2W F
R652	1-215-925-11	METAL OXIDE	22K 5% 3W F
R653	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
R654	1-216-369-00	METAL OXIDE	1 5% 2W F
R656	1-249-417-11	CARBON	1K 5% 1/4W
R657	1-260-127-11	CARBON	220K 5% 1/2W
R659	1-216-049-91	RES,CHIP	1K 5% 1/10W
R660	1-216-073-00	RES,CHIP	10K 5% 1/10W
R661	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
R909	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R910	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
<RELAY>			
RY600 \triangle	1-755-040-11	RELAY	
RY601 \triangle	1-755-266-11	RELAY, AC POWER	
<SWITCH>			
S501	1-572-707-11	SWITCH, LEVER	
S502	1-572-707-11	SWITCH, LEVER	

REF. NO.	PART NO.	DESCRIPTION	REMARK
<TRANSFORMER>			
T501	1-437-195-11	TRANSFORMER, HORIZONTAL DRIVE	
T503 \triangle	1-453-298-11	TRANSFORMER ASSY,FLYBACK (NX-4009//M3P)	
T504	1-431-475-11	TRANSFORMER, HORIZONTAL LINEAR	
T505	1-426-981-11	TRANSFORMER, FERRITE (PMT)	
T601	1-431-536-11	TRANSFORMER, LINE FILTER	
T603 \triangle	1-431-946-11	TRANSFORMER, CONVERTER	
T604 \triangle	1-431-852-11	TRANSFORMER, CONVERTER (SRT)	
<THERMISTOR>			
THP600	1-809-827-11	THERMISTOR, POSITIVE	
<TUNER>			
TU101	8-598-452-10	TUNER, FSS BTF-WG442	
<CRYSTAL>			
X001	1-781-174-21	VIBRATOR, CERAMIC	
X301	1-781-134-21	VIBRATOR, CRYSTAL	
X302	1-781-132-21	VIBRATOR, CRYSTAL	

* A-1131-375-A B2 BOARD, COMPLETE			

<CONNECTOR>			
CN2302 *	1-766-952-11	CONNECTOR, BOARD TO BOARD 11P	
<MODULE>			
YCM230	1-466-162-42	BLOCK, COM FILTER (CFB-4)	

* A-1135-978-A B3 BOARD, COMPLETE (EXCEPT KV-XF34M93)			

4-382-854-11	SCREW (M3X10), P, SW (+)		
<CAPACITOR>			
C1402	1-104-664-11	ELECT	47MF 20% 25V
C1404	1-216-295-91	SHORT	0
C1405	1-104-664-11	ELECT	47MF 20% 25V
C1410	1-104-664-11	ELECT	47MF 20% 25V
C1411	1-216-295-91	SHORT	0

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B3 (EXCEPT KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION		REMARK
C1413	1-126-935-11	ELECT	470MF	20% 16V
C1414	1-164-346-11	CERAMIC CHIP	1MF	16V
C1415	1-104-664-11	ELECT	47MF	20% 25V
C1416	1-164-346-11	CERAMIC CHIP	1MF	16V
C1418	1-163-031-11	CERAMIC CHIP	0.01MF	50V
C1422	1-164-346-11	CERAMIC CHIP	1MF	16V
C1423	1-164-346-11	CERAMIC CHIP	1MF	16V
C1425	1-164-346-11	CERAMIC CHIP	1MF	16V
C1426	1-164-346-11	CERAMIC CHIP	1MF	16V
C1428	1-104-665-11	ELECT	100MF	20% 25V
C1429	1-126-966-11	ELECT	33MF	20% 50V
C1431	1-163-038-91	CERAMIC CHIP	0.1MF	25V
C1433	1-126-933-11	ELECT	100MF	20% 16V
C1434	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1435	1-163-038-91	CERAMIC CHIP	0.1MF	25V
C1436	1-163-038-91	CERAMIC CHIP	0.1MF	25V
C1440	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1441	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1443	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1444	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C1445	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1446	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1447	1-126-964-11	ELECT	10MF	20% 50V
C1448	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C1449	1-126-933-11	ELECT	100MF	20% 16V
C1459	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1460	1-163-133-00	CERAMIC CHIP	470PF	5% 50V
C1461	1-164-346-11	CERAMIC CHIP	1MF	16V
C1462	1-164-346-11	CERAMIC CHIP	1MF	16V
C3201	1-126-964-11	ELECT	10MF	20% 50V
C3202	1-136-169-00	FILM	0.22MF	5% 50V
C3203	1-115-339-11	CERAMIC CHIP	0.1MF	10% 50V
C3206	1-163-021-91	CERAMIC CHIP	0.01MF	10% 50V
C3207	1-164-489-11	CERAMIC CHIP	0.22MF	10% 16V
C3208	1-164-489-11	CERAMIC CHIP	0.22MF	10% 16V
C3209	1-163-017-00	CERAMIC CHIP	0.0047MF	10% 50V
C3210	1-126-964-11	ELECT	10MF	20% 50V
C3211	1-126-964-11	ELECT	10MF	20% 50V
C3212	1-126-964-11	ELECT	10MF	20% 50V
C3213	1-104-665-11	ELECT	100MF	20% 25V
C3214	1-104-665-11	ELECT	100MF	20% 25V
C3215	1-117-720-11	CERAMIC CHIP	4.7MF	10V
C3216	1-117-720-11	CERAMIC CHIP	4.7MF	10V
C3217	1-163-021-91	CERAMIC CHIP	0.01MF	10% 50V
C3218	1-163-017-00	CERAMIC CHIP	0.0047MF	10% 50V
C3219	1-163-017-00	CERAMIC CHIP	0.0047MF	10% 50V
C3220	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3221	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3222	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3223	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3224	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C3225	1-163-038-91	CERAMIC CHIP	0.1MF	25V
C3226	1-126-964-11	ELECT	10MF	20% 50V
C3227	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C3228	1-107-698-11	ELECT	10MF	20% 25V
C3229	1-107-698-11	ELECT	10MF	20% 25V
C3238	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C3239	1-136-169-00	FILM	0.22MF	5% 50V

REF. NO.	PART NO.	DESCRIPTION		REMARK
C3240	1-115-339-11	CERAMIC CHIP	0.1MF	10% 50V
C3243	1-163-989-11	CERAMIC CHIP	0.033MF	10% 25V
C3244	1-164-346-11	CERAMIC CHIP	1MF	16V
C3245	1-164-005-11	CERAMIC CHIP	0.47MF	25V
C3246	1-163-243-11	CERAMIC CHIP	47PF	5% 50V
C3247	1-126-963-11	ELECT	4.7MF	20% 50V
C3248	1-163-251-11	CERAMIC CHIP	100PF	5% 50V
C3249	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C3250	1-164-346-11	CERAMIC CHIP	1MF	16V
C3251	1-126-964-11	ELECT	10MF	20% 50V
C3252	1-163-251-11	CERAMIC CHIP	100PF	5% 50V
C3253	1-126-933-11	ELECT	100MF	20% 16V
C3254	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C3255	1-163-243-11	CERAMIC CHIP	47PF	5% 50V
C3256	1-126-963-11	ELECT	4.7MF	20% 50V
C3257	1-164-346-11	CERAMIC CHIP	1MF	16V
C3258	1-163-989-11	CERAMIC CHIP	0.033MF	10% 25V
C3259	1-104-664-11	ELECT	47MF	20% 16V
C3260	1-163-251-11	CERAMIC CHIP	100PF	5% 50V
C3262	1-126-933-11	ELECT	100MF	20% 16V
C3264	1-163-251-11	CERAMIC CHIP	100PF	5% 50V
C3265	1-126-964-11	ELECT	10MF	20% 50V
C3266	1-126-964-11	ELECT	10MF	20% 50V
C3268	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V
C3269	1-164-004-11	CERAMIC CHIP	0.1MF	10% 25V
C3270	1-164-690-91	CERAMIC CHIP	0.0022MF	5% 50V
C3271	1-164-690-91	CERAMIC CHIP	0.0022MF	5% 50V
C3272	1-126-965-11	ELECT	22MF	20% 50V
C3273	1-115-339-11	CERAMIC CHIP	0.1MF	10% 50V
C3274	1-126-964-11	ELECT	10MF	20% 50V
C3276	1-164-344-11	CERAMIC CHIP	0.068MF	10% 25V
C3277	1-164-344-11	CERAMIC CHIP	0.068MF	10% 25V
C3278	1-164-344-11	CERAMIC CHIP	0.068MF	10% 25V
C3279	1-164-344-11	CERAMIC CHIP	0.068MF	10% 25V
C3280	1-115-419-11	CERAMIC CHIP	3300PF	5% 25V
C3281	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3282	1-126-964-11	ELECT	10MF	20% 50V
C3283	1-126-964-11	ELECT	10MF	20% 50V
C3284	1-115-339-11	CERAMIC CHIP	0.1MF	10% 50V
C3285	1-126-964-11	ELECT	10MF	20% 50V
C3286	1-126-964-11	ELECT	10MF	20% 50V
C3287	1-126-964-11	ELECT	10MF	20% 50V
C3288	1-163-037-11	CERAMIC CHIP	0.022MF	10% 50V
C3289	1-115-419-11	CERAMIC CHIP	3300PF	5% 25V
C3290	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C3291	1-164-505-11	CERAMIC CHIP	2.2MF	16V
C6200	1-216-295-91	SHORT	0	
C6202	1-128-550-11	ELECT	2200MF	20% 50V
C6203	1-163-021-91	CERAMIC CHIP	0.01MF	10% 50V
C6204	1-128-550-11	ELECT	2200MF	20% 50V
C6205	1-130-495-00	MYLAR	0.1MF	5% 50V
C6206	1-128-550-11	ELECT	2200MF	20% 50V
C6209	1-130-495-00	MYLAR	0.1MF	5% 50V
C6210	1-104-661-91	ELECT	330MF	20% 16V
C6211	1-104-661-91	ELECT	330MF	20% 16V
C6212	1-126-967-11	ELECT	47MF	20% 50V
C6213	1-136-169-00	FILM	0.22MF	5% 50V

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
C6217	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V			<CHIP CONDUCTOR>	
C6220	1-164-505-11	CERAMIC CHIP	2.2MF 16V				
C6222	1-164-505-11	CERAMIC CHIP	2.2MF 16V	JR1405	1-216-295-91	SHORT	0
C6223	1-126-960-11	ELECT	1MF 20% 50V	JR1406	1-216-295-91	SHORT	0
C6241	1-136-169-00	FILM	0.22MF 5% 50V	JR1407	1-216-295-91	SHORT	0
C6249	1-216-295-91	SHORT	0	JR1408	1-216-295-91	SHORT	0
		<CONNECTOR>		JR3200	1-216-295-91	SHORT	0
CN1400*	1-564-512-11	PLUG, CONNECTOR 9P		JR3201	1-216-295-91	SHORT	0
CN1401*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P		JR3202	1-216-295-91	SHORT	0
CN1403*	1-564-506-11	PLUG, CONNECTOR 3P		JR3203	1-216-295-91	SHORT	0
CN1405*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P		JR3204	1-216-295-91	SHORT	0
CN1407*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P		JR3207	1-216-295-91	SHORT	0
CN6200*	1-564-507-11	PLUG, CONNECTOR 4P		JR3208	1-216-295-91	SHORT	0
CN6204*	1-564-509-11	PLUG, CONNECTOR 6P		JR3209	1-216-295-91	SHORT	0
CN6206*	1-564-510-11	PLUG, CONNECTOR 7P		JR6200	1-216-295-91	SHORT	0
		<DIODE>		JR6202	1-216-295-91	SHORT	0
D1401	8-719-158-35	DIODE RD9.1SB		JR6203	1-216-295-91	SHORT	0
D1402	8-719-158-35	DIODE RD9.1SB		JR6204	1-216-295-91	SHORT	0
D1403	8-719-158-35	DIODE RD9.1SB				<COIL>	
D1404	8-719-158-35	DIODE RD9.1SB		L1404	1-412-537-31	INDUCTOR	100UH
D1405	8-719-158-35	DIODE RD9.1SB		L3202	1-414-856-11	INDUCTOR	10UH
D1406	8-719-158-35	DIODE RD9.1SB				<TRANSISTOR>	
D1407	8-719-158-35	DIODE RD9.1SB		Q1402	8-729-216-22	TRANSISTOR 2SA1162-G	
D1408	8-719-158-35	DIODE RD9.1SB		Q1403	8-729-230-49	TRANSISTOR 2SC2712-YG	
D1409	8-719-158-35	DIODE RD9.1SB		Q1404	8-729-230-49	TRANSISTOR 2SC2712-YG	
D1410	8-719-158-35	DIODE RD9.1SB		Q3201	8-729-224-62	TRANSISTOR 2SK246-GR	
D1411	8-719-158-35	DIODE RD9.1SB		Q3202	8-729-230-49	TRANSISTOR 2SC2712-YG	
D1412	8-719-158-35	DIODE RD9.1SB		Q3203	8-729-230-49	TRANSISTOR 2SC2712-YG	
D1415	8-719-158-35	DIODE RD9.1SB		Q3204	8-729-224-62	TRANSISTOR 2SK246-GR	
D1416	8-719-158-35	DIODE RD9.1SB		Q6201	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D3201	8-719-988-61	DIODE 1SS355TE-17		Q6203	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D3203	8-719-988-61	DIODE 1SS355TE-17		Q6204	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D6211	8-719-404-50	DIODE MA111-TX		Q6208	1-801-806-11	TRANSISTOR DTC144EKA-T146	
D6212	8-719-404-50	DIODE MA111-TX				<RESISTOR>	
		<IC>		R1403	1-216-033-00	RES,CHIP	220 5% 1/10W
IC1401	8-752-068-46	IC CXA1855S		R1404	1-216-295-91	SHORT	0
IC1404	8-759-701-59	IC NJM78M09FA		R1406	1-216-017-91	RES,CHIP	47 5% 1/10W
IC3200	8-759-100-96	IC UPC4558G2		R1407	1-216-033-00	RES,CHIP	220 5% 1/10W
IC3201	8-759-553-44	IC NJM2187L		R1408	1-216-031-00	RES,CHIP	180 5% 1/10W
IC3202	8-759-100-96	IC UPC4558G2		R1409	1-216-105-91	RES,CHIP	220K 5% 1/10W
IC3203	8-759-711-10	IC NJU4066BM		R1410	1-216-105-91	RES,CHIP	220K 5% 1/10W
IC3204	8-759-100-96	IC UPC4558G2		R1411	1-216-295-91	SHORT	0
IC3205	8-752-057-18	IC CXA1315P		R1412	1-216-295-91	SHORT	0
IC3206	8-759-496-02	IC NJM2150D		R1414	1-216-025-91	RES,CHIP	100 5% 1/10W
IC3207	8-759-273-12	IC TDA7315D013TR		R1426	1-216-025-91	RES,CHIP	100 5% 1/10W
IC6200	8-759-168-24	IC TA8200AH		R1428	1-216-025-91	RES,CHIP	100 5% 1/10W
		<JACK>		R1429	1-216-295-91	SHORT	0
J1401	1-784-646-11	TERMINAL, S		R1430	1-216-025-91	RES,CHIP	100 5% 1/10W
J1402	1-778-388-11	JACK BLOCK, PIN 9P		R1431	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1433	1-216-025-91	RES,CHIP	100 5% 1/10W
				R1435	1-216-022-00	RES,CHIP	75 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION			REMARK	REF. NO.	PART NO.	DESCRIPTION			REMARK
R1436	1-216-025-91	RES,CHIP	100	5%	1/10W	R3212	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1437	1-216-022-00	RES,CHIP	75	5%	1/10W	R3213	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1438	1-216-025-91	RES,CHIP	100	5%	1/10W	R3214	1-216-295-91	SHORT	0		
						R3215	1-216-295-91	SHORT	0		
R1441	1-216-025-91	RES,CHIP	100	5%	1/10W	R3216	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1442	1-216-049-91	RES,CHIP	1K	5%	1/10W						
R1443	1-216-049-91	RES,CHIP	1K	5%	1/10W	R3217	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1445	1-216-025-91	RES,CHIP	100	5%	1/10W	R3218	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R1446	1-216-105-91	RES,CHIP	220K	5%	1/10W	R3219	1-216-077-00	RES,CHIP	15K	5%	1/10W
						R3220	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1447	1-216-025-91	RES,CHIP	100	5%	1/10W	R3221	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1449	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R1450	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3222	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1451	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3223	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1452	1-216-295-91	SHORT	0			R3224	1-216-115-00	RES,CHIP	560K	5%	1/10W
						R3225	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1453	1-216-025-91	RES,CHIP	100	5%	1/10W	R3226	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1455	1-216-073-00	RES,CHIP	10K	5%	1/10W						
R1456	1-216-113-00	RES,CHIP	470K	5%	1/10W	R3227	1-216-129-00	RES,CHIP	2.2M	5%	1/10W
R1457	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3228	1-216-085-00	RES,CHIP	33K	5%	1/10W
R1458	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3229	1-216-095-00	RES,CHIP	82K	5%	1/10W
						R3230	1-216-055-00	RES,CHIP	1.8K	5%	1/10W
R1459	1-216-025-91	RES,CHIP	100	5%	1/10W	R3231	1-216-091-00	RES,CHIP	56K	5%	1/10W
R1460	1-216-033-00	RES,CHIP	220	5%	1/10W						
R1463	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3232	1-216-089-91	RES,CHIP	47K	5%	1/10W
R1464	1-216-113-00	RES,CHIP	470K	5%	1/10W	R3233	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R1465	1-216-113-00	RES,CHIP	470K	5%	1/10W	R3234	1-216-039-00	RES,CHIP	390	5%	1/10W
						R3235	1-216-101-00	RES,CHIP	150K	5%	1/10W
R1466	1-216-033-00	RES,CHIP	220	5%	1/10W	R3236	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1467	1-216-057-00	RES,CHIP	2.2K	5%	1/10W						
R1468	1-216-093-91	RES,CHIP	68K	5%	1/10W	R3237	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1469	1-216-105-91	RES,CHIP	220K	5%	1/10W	R3238	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1470	1-216-105-91	RES,CHIP	220K	5%	1/10W	R3239	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R3240	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1471	1-216-022-00	RES,CHIP	75	5%	1/10W	R3241	1-216-093-91	RES,CHIP	68K	5%	1/10W
R1472	1-216-033-00	RES,CHIP	220	5%	1/10W						
R1473	1-216-033-00	RES,CHIP	220	5%	1/10W	R3242	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1477	1-216-047-91	RES,CHIP	820	5%	1/10W	R3243	1-216-073-00	RES,CHIP	10K	5%	1/10W
R1478	1-216-051-00	RES,CHIP	1.2K	5%	1/10W	R3244	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R3245	1-216-097-91	RES,CHIP	100K	5%	1/10W
R1479	1-216-105-91	RES,CHIP	220K	5%	1/10W	R3246	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1480	1-216-105-91	RES,CHIP	220K	5%	1/10W						
R1481	1-216-022-00	RES,CHIP	75	5%	1/10W	R3247	1-216-101-00	RES,CHIP	150K	5%	1/10W
R1482	1-216-025-91	RES,CHIP	100	5%	1/10W	R3248	1-216-081-00	RES,CHIP	22K	5%	1/10W
R1485	1-216-025-91	RES,CHIP	100	5%	1/10W	R3249	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R3250	1-216-049-91	RES,CHIP	1K	5%	1/10W
R1486	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R3251	1-216-101-00	RES,CHIP	150K	5%	1/10W
R1490	1-216-025-91	RES,CHIP	100	5%	1/10W						
R1491	1-216-025-91	RES,CHIP	100	5%	1/10W	R3252	1-216-113-00	RES,CHIP	470K	5%	1/10W
R1492	1-216-021-00	RES,CHIP	68	5%	1/10W	R3253	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R1493	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	R3254	1-216-073-00	RES,CHIP	10K	5%	1/10W
						R3255	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1496	1-216-041-00	RES,CHIP	470	5%	1/10W	R3256	1-216-121-91	RES,CHIP	1M	5%	1/10W
R1497	1-216-041-00	RES,CHIP	470	5%	1/10W						
R1498	1-216-025-91	RES,CHIP	100	5%	1/10W	R3257	1-216-097-91	RES,CHIP	100K	5%	1/10W
R3200	1-216-121-91	RES,CHIP	1M	5%	1/10W	R3258	1-216-121-91	RES,CHIP	1M	5%	1/10W
R3201	1-216-121-91	RES,CHIP	1M	5%	1/10W	R3259	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
						R3260	1-216-025-91	RES,CHIP	100	5%	1/10W
R3202	1-216-097-91	RES,CHIP	100K	5%	1/10W	R3261	1-216-025-91	RES,CHIP	100	5%	1/10W
R3203	1-216-121-91	RES,CHIP	1M	5%	1/10W						
R3204	1-216-061-00	RES,CHIP	3.3K	5%	1/10W	R3262	1-216-115-00	RES,CHIP	560K	5%	1/10W
R3205	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R3263	1-216-093-91	RES,CHIP	68K	5%	1/10W
R3206	1-216-039-00	RES,CHIP	390	5%	1/10W	R3264	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
						R3266	1-216-295-91	SHORT	0		
R3207	1-216-073-00	RES,CHIP	10K	5%	1/10W	R3267	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3208	1-216-053-00	RES,CHIP	1.5K	5%	1/10W						
R3209	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	R3268	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3210	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	R3269	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3211	1-216-069-00	RES,CHIP	6.8K	5%	1/10W						

B₃ (EXCEPT
KV-XF34M93)**B₃** (KV-XF34M93)

REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
R3270	1-216-295-91	SHORT	0	C1406	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
R3271	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1407	1-126-933-11	ELECT	100MF 20% 16V
R3272	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1408	1-126-964-11	ELECT	10MF 20% 50V
R3273	1-216-057-00	RES,CHIP	2.2K 5% 1/10W	C1410	1-104-664-11	ELECT	47MF 20% 25V
R3274	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1411	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R3277	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1412	1-163-038-91	CERAMIC CHIP	0.1MF 25V
R3278	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	C1413	1-126-935-11	ELECT	470MF 20% 16V
R3279	1-216-067-00	RES,CHIP	5.6K 5% 1/10W	C1414	1-164-346-11	CERAMIC CHIP	1MF 16V
R3280	1-216-033-00	RES,CHIP	220 5% 1/10W	C1415	1-104-664-11	ELECT	47MF 20% 25V
R3281	1-216-033-00	RES,CHIP	220 5% 1/10W	C1416	1-164-346-11	CERAMIC CHIP	1MF 16V
R3282	1-216-079-00	RES,CHIP	18K 5% 1/10W	C1417	1-126-933-11	ELECT	100MF 20% 16V
R3283	1-216-081-00	RES,CHIP	22K 5% 1/10W	C1418	1-163-031-11	CERAMIC CHIP	0.01MF 50V
R3284	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1419	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
R3285	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1420	1-163-038-91	CERAMIC CHIP	0.1MF 25V
R3286	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1421	1-164-346-11	CERAMIC CHIP	1MF 16V
R3287	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1422	1-164-346-11	CERAMIC CHIP	1MF 16V
R3288	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1423	1-164-346-11	CERAMIC CHIP	1MF 16V
R3289	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1425	1-164-346-11	CERAMIC CHIP	1MF 16V
R3290	1-216-081-00	RES,CHIP	22K 5% 1/10W	C1426	1-164-346-11	CERAMIC CHIP	1MF 16V
R3291	1-216-079-00	RES,CHIP	18K 5% 1/10W	C1428	1-104-665-11	ELECT	100MF 20% 25V
R3294	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1429	1-126-966-11	ELECT	33MF 20% 50V
R3295	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C1430	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
R3296	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C1431	1-163-038-91	CERAMIC CHIP	0.1MF 25V
R3297	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1432	1-104-664-11	ELECT	47MF 20% 25V
R3298	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1433	1-126-933-11	ELECT	100MF 20% 16V
R3299	1-216-069-00	RES,CHIP	6.8K 5% 1/10W	C1434	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6201	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C1435	1-163-038-91	CERAMIC CHIP	0.1MF 25V
R6202	1-216-065-91	RES,CHIP	4.7K 5% 1/10W	C1436	1-163-038-91	CERAMIC CHIP	0.1MF 25V
R6203	1-216-295-91	SHORT	0	C1438	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
R6209	1-216-049-91	RES,CHIP	1K 5% 1/10W	C1439	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6213	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1440	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6214	1-216-073-00	RES,CHIP	10K 5% 1/10W	C1441	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6219	1-216-089-91	RES,CHIP	47K 5% 1/10W	C1442	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6245	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	C1443	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6246	1-216-053-00	RES,CHIP	1.5K 5% 1/10W	C1444	1-164-005-11	CERAMIC CHIP	0.47MF 25V
R6254	1-216-017-91	RES,CHIP	47 5% 1/10W	C1445	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6255	1-216-308-00	RES,CHIP	4.7 5% 1/10W	C1446	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
R6258	1-216-017-91	RES,CHIP	47 5% 1/10W	C1447	1-126-964-11	ELECT	10MF 20% 50V
R6259	1-216-308-00	RES,CHIP	4.7 5% 1/10W	C1448	1-164-005-11	CERAMIC CHIP	0.47MF 25V
R6278	1-216-295-91	SHORT	0	C1449	1-126-933-11	ELECT	100MF 20% 16V
*****				C1450	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
* A-1136-002-A B3 BOARD, COMPLETE (KV-XF34M93)				C1451	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
*****				C1452	1-163-005-11	CERAMIC CHIP	470PF 10% 50V
4-382-854-11 SCREW (M3X10), P, SW (+)				C1453	1-126-933-11	ELECT	100MF 20% 16V
<CAPACITOR>				C1454	1-126-967-11	ELECT	47MF 20% 50V
C1401	1-126-933-11	ELECT	100MF 20% 16V	C1455	1-126-967-11	ELECT	47MF 20% 50V
C1402	1-104-664-11	ELECT	47MF 20% 25V	C1456	1-126-933-11	ELECT	100MF 20% 16V
C1403	1-104-664-11	ELECT	47MF 20% 25V	C1457	1-164-346-11	CERAMIC CHIP	1MF 16V
C1404	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V	C1458	1-126-933-11	ELECT	100MF 20% 16V
C1405	1-104-664-11	ELECT	47MF 20% 25V	C1459	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C1460	1-163-133-00	CERAMIC CHIP	470PF 5% 50V	C1460	1-163-133-00	CERAMIC CHIP	470PF 5% 50V
C1461	1-164-346-11	CERAMIC CHIP	1MF 16V	C1461	1-164-346-11	CERAMIC CHIP	1MF 16V
C1462	1-164-346-11	CERAMIC CHIP	1MF 16V	C1462	1-164-346-11	CERAMIC CHIP	1MF 16V
C3201	1-126-964-11	ELECT	10MF 20% 50V	C3201	1-126-964-11	ELECT	10MF 20% 50V
C3203	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V	C3203	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C3206	1-163-021-91	CERAMIC CHIP	0.01MF 10% 50V	C3206	1-163-021-91	CERAMIC CHIP	0.01MF 10% 50V
C3207	1-164-489-11	CERAMIC CHIP	0.22MF 10% 16V	C3207	1-164-489-11	CERAMIC CHIP	0.22MF 10% 16V

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REF. NO.	PART NO.	DESCRIPTION	REMARK
C3208	1-164-489-11	CERAMIC CHIP	0.22MF 10% 16V
C3209	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C3210	1-126-964-11	ELECT	10MF 20% 50V
C3211	1-126-964-11	ELECT	10MF 20% 50V
C3212	1-126-964-11	ELECT	10MF 20% 50V
C3213	1-104-665-11	ELECT	100MF 20% 25V
C3214	1-104-665-11	ELECT	100MF 20% 25V
C3215	1-117-720-11	CERAMIC CHIP	4.7MF 10V
C3216	1-117-720-11	CERAMIC CHIP	4.7MF 10V
C3217	1-163-021-91	CERAMIC CHIP	0.01MF 10% 50V
C3218	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C3219	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C3220	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3221	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3222	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3223	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3224	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C3225	1-163-038-91	CERAMIC CHIP	0.1MF 25V
C3226	1-126-964-11	ELECT	10MF 20% 50V
C3227	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C3228	1-107-698-11	ELECT	10MF 20% 25V
C3229	1-107-698-11	ELECT	10MF 20% 25V
C3240	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C3249	1-216-295-91	SHORT	0
C3254	1-216-295-91	SHORT	0
C3259	1-104-664-11	ELECT	47MF 20% 16V
C3260	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C3262	1-126-933-11	ELECT	100MF 20% 16V
C3264	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C3265	1-126-964-11	ELECT	10MF 20% 50V
C3266	1-126-964-11	ELECT	10MF 20% 50V
C3268	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C3269	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C3270	1-164-690-91	CERAMIC CHIP	0.0022MF 5% 50V
C3271	1-164-690-91	CERAMIC CHIP	0.0022MF 5% 50V
C3272	1-126-965-11	ELECT	22MF 20% 50V
C3273	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C3274	1-126-964-11	ELECT	10MF 20% 50V
C3276	1-164-344-11	CERAMIC CHIP	0.068MF 10% 25V
C3277	1-164-344-11	CERAMIC CHIP	0.068MF 10% 25V
C3278	1-164-344-11	CERAMIC CHIP	0.068MF 10% 25V
C3279	1-164-344-11	CERAMIC CHIP	0.068MF 10% 25V
C3280	1-115-419-11	CERAMIC CHIP	3300PF 5% 25V
C3281	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3282	1-126-964-11	ELECT	10MF 20% 50V
C3283	1-126-964-11	ELECT	10MF 20% 50V
C3284	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C3285	1-126-964-11	ELECT	10MF 20% 50V
C3286	1-126-964-11	ELECT	10MF 20% 50V
C3287	1-126-964-11	ELECT	10MF 20% 50V
C3288	1-163-037-11	CERAMIC CHIP	0.022MF 10% 50V
C3289	1-115-419-11	CERAMIC CHIP	3300PF 5% 25V
C3290	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C3291	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C6200	1-216-295-91	SHORT	0
C6201	1-126-964-11	ELECT	10MF 20% 50V
C6202	1-128-550-11	ELECT	2200MF 20% 50V
C6203	1-163-021-91	CERAMIC CHIP	0.01MF 10% 50V

REF. NO.	PART NO.	DESCRIPTION	REMARK
C6204	1-128-550-11	ELECT	2200MF 20% 50V
C6205	1-130-495-00	MYLAR	0.1MF 5% 50V
C6206	1-128-550-11	ELECT	2200MF 20% 50V
C6207	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6208	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6209	1-130-495-00	MYLAR	0.1MF 5% 50V
C6210	1-104-661-91	ELECT	330MF 20% 16V
C6211	1-104-661-91	ELECT	330MF 20% 16V
C6212	1-126-967-11	ELECT	47MF 20% 50V
C6213	1-136-161-00	FILM	0.047MF 5% 50V
C6215	1-126-933-11	ELECT	100MF 20% 16V
C6216	1-126-960-11	ELECT	1MF 20% 50V
C6217	1-164-004-11	CERAMIC CHIP	0.1MF 10% 25V
C6218	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6219	1-126-961-11	ELECT	2.2MF 20% 50V
C6220	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C6221	1-126-959-11	ELECT	0.47MF 20% 50V
C6222	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C6223	1-126-960-11	ELECT	1MF 20% 50V
C6225	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6226	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6227	1-128-550-11	ELECT	2200MF 20% 50V
C6228	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6229	1-164-505-11	CERAMIC CHIP	2.2MF 16V
C6230	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6231	1-128-550-11	ELECT	2200MF 20% 50V
C6232	1-163-275-11	CERAMIC CHIP	0.001MF 5% 50V
C6233	1-163-007-11	CERAMIC CHIP	680PF 10% 50V
C6234	1-163-017-00	CERAMIC CHIP	0.0047MF 10% 50V
C6235	1-163-251-11	CERAMIC CHIP	100PF 5% 50V
C6236	1-115-339-11	CERAMIC CHIP	0.1MF 10% 50V
C6237	1-136-177-00	FILM	1MF 5% 50V
C6238	1-163-009-11	CERAMIC CHIP	0.001MF 10% 50V
C6239	1-127-682-51	ELECT MELF	2200MF 20% 25V
C6240	1-130-495-00	MYLAR	0.1MF 5% 50V
C6241	1-136-161-00	FILM	0.047MF 5% 50V
C6244	1-163-019-00	CERAMIC CHIP	0.0068MF 10% 50V
C6245	1-163-019-00	CERAMIC CHIP	0.0068MF 10% 50V
C6249	1-216-295-91	SHORT	0
C6251	1-126-965-11	ELECT	22MF 20% 50V
C6252	1-126-965-11	ELECT	22MF 20% 50V
C6253	1-126-959-11	ELECT	0.47MF 20% 50V
<CONNECTOR>			
CN1400*	1-564-512-11	PLUG, CONNECTOR 9P	
CN1401*	1-508-784-21	PIN, CONNECTOR (5MM PITCH) 1P	
CN1403*	1-564-506-11	PLUG, CONNECTOR 3P	
CN1404*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P	
CN1405*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN1406*	1-779-892-11	CONNECTOR, BOARD TO BOARD 10P	
CN1407*	1-779-891-11	CONNECTOR, BOARD TO BOARD 8P	
CN1408	1-764-818-11	CONNECTOR, BOARD TO BOARD 10P	
CN1409	1-764-818-11	CONNECTOR, BOARD TO BOARD 10P	
CN6200*	1-564-507-11	PLUG, CONNECTOR 4P	
CN6202*	1-564-507-11	PLUG, CONNECTOR 4P	
CN6204*	1-564-509-11	PLUG, CONNECTOR 6P	
CN6205*	1-564-507-11	PLUG, CONNECTOR 4P	
CN6206*	1-564-510-11	PLUG, CONNECTOR 7P	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
		<DIODE>					
D1401	8-719-158-35	DIODE RD9.1SB		JR3203	1-216-295-91	SHORT	0
D1402	8-719-158-35	DIODE RD9.1SB		JR3204	1-216-295-91	SHORT	0
D1403	8-719-158-35	DIODE RD9.1SB		JR3207	1-216-295-91	SHORT	0
D1404	8-719-158-35	DIODE RD9.1SB		JR3208	1-216-295-91	SHORT	0
D1405	8-719-158-35	DIODE RD9.1SB		JR3209	1-216-295-91	SHORT	0
D1406	8-719-158-35	DIODE RD9.1SB		JR6200	1-216-295-91	SHORT	0
D1407	8-719-158-35	DIODE RD9.1SB		JR6201	1-216-295-91	SHORT	0
D1408	8-719-158-35	DIODE RD9.1SB		JR6202	1-216-295-91	SHORT	0
D1409	8-719-158-35	DIODE RD9.1SB		JR6203	1-216-295-91	SHORT	0
D1410	8-719-158-35	DIODE RD9.1SB		JR6204	1-216-295-91	SHORT	0
D1411	8-719-158-35	DIODE RD9.1SB				<COIL>	
D1412	8-719-158-35	DIODE RD9.1SB		L1400	1-414-856-11	INDUCTOR	10UH
D1415	8-719-158-35	DIODE RD9.1SB		L1402	1-412-537-31	INDUCTOR	100UH
D1416	8-719-158-35	DIODE RD9.1SB		L1403	1-414-856-11	INDUCTOR	10UH
D6200	8-719-109-86	DIODE RD5.1ESB3		L1404	1-412-537-31	INDUCTOR	100UH
D6205	8-719-988-61	DIODE 1SS355TE-17		L1405	1-414-856-11	INDUCTOR	10UH
D6211	8-719-404-50	DIODE MA111-TX		L1406	1-414-856-11	INDUCTOR	10UH
D6212	8-719-404-50	DIODE MA111-TX		L1407	1-414-856-11	INDUCTOR	10UH
		<FERRITE BEAD>		L3202	1-414-856-11	INDUCTOR	10UH
FB6201	1-410-397-21	FERRITE	1.1UH	L6202	1-416-857-11	INDUCTOR	65UH
FB6202	1-410-397-21	FERRITE	1.1UH			<IC LINK>	
		<IC>		PS6200	1-532-686-21	LINK, IC 2.7A/150V	
IC1401	8-752-068-46	IC CXA1855S		PS6201	1-532-686-21	LINK, IC 2.7A/150V	
IC1402	8-759-100-96	IC UPC4558G2				<TRANSISTOR>	
IC1403	8-759-231-53	IC TA7805S		Q1401	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC1404	8-759-701-59	IC NJM78M09FA		Q1402	8-729-216-22	TRANSISTOR 2SA1162-G	
IC3200	8-759-100-96	IC UPC4558G2		Q1403	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3201	8-759-553-44	IC NJM2187L		Q1404	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3202	8-759-100-96	IC UPC4558G2		Q1408	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3203	8-759-711-10	IC NJU4066BM		Q1409	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3205	8-752-057-18	IC CXA1315P		Q1410	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3206	8-759-496-02	IC NJM2150D		Q6200	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC3207	8-759-273-12	IC TDA7315D013TR		Q6201	1-801-806-11	TRANSISTOR DTC144EKA-T146	
IC6200	8-759-168-24	IC TA8200AH		Q6202	8-729-230-49	TRANSISTOR 2SC2712-YG	
IC6201	8-759-553-45	IC TDA7481		Q6203	1-801-806-11	TRANSISTOR DTC144EKA-T146	
		<JACK>		Q6204	1-801-806-11	TRANSISTOR DTC144EKA-T146	
J1401	1-784-646-11	TERMINAL, S		Q6205	8-729-230-49	TRANSISTOR 2SC2712-YG	
J1402	1-778-387-11	JACK BLOCK, PIN 12P		Q6206	8-729-230-49	TRANSISTOR 2SC2712-YG	
		<CHIP CONDUCTOR>		Q6207	8-729-224-62	TRANSISTOR 2SK246-GR	
JR1401	1-216-295-91	SHORT	0	Q6208	1-801-806-11	TRANSISTOR DTC144EKA-T146	
JR1402	1-216-295-91	SHORT	0			<RESISTOR>	
JR1405	1-216-295-91	SHORT	0	R1400	1-216-105-91	RES,CHIP	220K 5% 1/10W
JR1406	1-216-295-91	SHORT	0	R1401	1-216-031-00	RES,CHIP	180 5% 1/10W
JR1407	1-216-295-91	SHORT	0	R1402	1-216-033-00	RES,CHIP	220 5% 1/10W
JR1409	1-216-295-91	SHORT	0	R1403	1-216-033-00	RES,CHIP	220 5% 1/10W
JR1410	1-216-295-91	SHORT	0	R1404	1-216-295-91	SHORT	0
JR3200	1-216-295-91	SHORT	0	R1406	1-216-017-91	RES,CHIP	47 5% 1/10W
JR3201	1-216-295-91	SHORT	0	R1407	1-216-033-00	RES,CHIP	220 5% 1/10W
JR3202	1-216-295-91	SHORT	0	R1408	1-216-031-00	RES,CHIP	180 5% 1/10W
				R1409	1-216-105-91	RES,CHIP	220K 5% 1/10W
				R1410	1-216-105-91	RES,CHIP	220K 5% 1/10W

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REF. NO.	PART NO.	DESCRIPTION	REMARK
R1411	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1412	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1413	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1414	1-216-025-91	RES,CHIP	100 5% 1/10W
R1419	1-216-025-91	RES,CHIP	100 5% 1/10W
R1420	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1421	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1423	1-216-025-91	RES,CHIP	100 5% 1/10W
R1424	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1425	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1426	1-216-025-91	RES,CHIP	100 5% 1/10W
R1427	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
R1428	1-216-025-91	RES,CHIP	100 5% 1/10W
R1429	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1430	1-216-025-91	RES,CHIP	100 5% 1/10W
R1431	1-216-025-91	RES,CHIP	100 5% 1/10W
R1432	1-216-041-00	RES,CHIP	470 5% 1/10W
R1433	1-216-025-91	RES,CHIP	100 5% 1/10W
R1434	1-216-025-91	RES,CHIP	100 5% 1/10W
R1435	1-216-022-00	RES,CHIP	75 5% 1/10W
R1436	1-216-025-91	RES,CHIP	100 5% 1/10W
R1437	1-216-022-00	RES,CHIP	75 5% 1/10W
R1438	1-216-025-91	RES,CHIP	100 5% 1/10W
R1439	1-216-295-91	SHORT	0
R1441	1-216-025-91	RES,CHIP	100 5% 1/10W
R1442	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1443	1-216-049-91	RES,CHIP	1K 5% 1/10W
R1444	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1445	1-216-025-91	RES,CHIP	100 5% 1/10W
R1446	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1447	1-216-025-91	RES,CHIP	100 5% 1/10W
R1448	1-216-047-91	RES,CHIP	820 5% 1/10W
R1449	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1450	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1451	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1452	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1453	1-216-025-91	RES,CHIP	100 5% 1/10W
R1454	1-216-091-00	RES,CHIP	56K 5% 1/10W
R1455	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1456	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1457	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1458	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1459	1-216-025-91	RES,CHIP	100 5% 1/10W
R1460	1-216-033-00	RES,CHIP	220 5% 1/10W
R1463	1-216-073-00	RES,CHIP	10K 5% 1/10W
R1464	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1465	1-216-113-00	RES,CHIP	470K 5% 1/10W
R1466	1-216-033-00	RES,CHIP	220 5% 1/10W
R1467	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1468	1-216-093-91	RES,CHIP	68K 5% 1/10W
R1469	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1470	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1471	1-216-022-00	RES,CHIP	75 5% 1/10W
R1472	1-216-033-00	RES,CHIP	220 5% 1/10W
R1473	1-216-033-00	RES,CHIP	220 5% 1/10W
R1474	1-216-295-91	SHORT	0
R1475	1-216-089-91	RES,CHIP	47K 5% 1/10W
R1476	1-216-091-00	RES,CHIP	56K 5% 1/10W

REF. NO.	PART NO.	DESCRIPTION	REMARK
R1477	1-216-047-91	RES,CHIP	820 5% 1/10W
R1478	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
R1479	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1480	1-216-105-91	RES,CHIP	220K 5% 1/10W
R1481	1-216-022-00	RES,CHIP	75 5% 1/10W
R1482	1-216-025-91	RES,CHIP	100 5% 1/10W
R1485	1-216-025-91	RES,CHIP	100 5% 1/10W
R1486	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R1487	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1488	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
R1489	1-216-022-00	RES,CHIP	75 5% 1/10W
R1490	1-216-025-91	RES,CHIP	100 5% 1/10W
R1491	1-216-025-91	RES,CHIP	100 5% 1/10W
R1492	1-216-021-00	RES,CHIP	68 5% 1/10W
R1493	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
R1494	1-216-031-00	RES,CHIP	180 5% 1/10W
R1495	1-216-033-00	RES,CHIP	220 5% 1/10W
R1496	1-216-041-00	RES,CHIP	470 5% 1/10W
R1497	1-216-041-00	RES,CHIP	470 5% 1/10W
R1498	1-216-025-91	RES,CHIP	100 5% 1/10W
R1501	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3208	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R3209	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R3210	1-216-053-00	RES,CHIP	1.5K 5% 1/10W
R3211	1-216-069-00	RES,CHIP	6.8K 5% 1/10W
R3212	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3213	1-216-091-00	RES,CHIP	56K 5% 1/10W
R3214	1-216-295-91	SHORT	0
R3215	1-216-295-91	SHORT	0
R3216	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3217	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3218	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R3219	1-216-077-00	RES,CHIP	15K 5% 1/10W
R3224	1-216-101-00	RES,CHIP	150K 5% 1/10W
R3225	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3226	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3227	1-216-129-00	RES,CHIP	2.2M 5% 1/10W
R3228	1-216-085-00	RES,CHIP	33K 5% 1/10W
R3229	1-216-095-00	RES,CHIP	82K 5% 1/10W
R3230	1-216-055-00	RES,CHIP	1.8K 5% 1/10W
R3231	1-216-091-00	RES,CHIP	56K 5% 1/10W
R3232	1-216-089-91	RES,CHIP	47K 5% 1/10W
R3238	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3239	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3240	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3241	1-216-093-91	RES,CHIP	68K 5% 1/10W
R3242	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3243	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3244	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3247	1-216-101-00	RES,CHIP	150K 5% 1/10W
R3248	1-216-081-00	RES,CHIP	22K 5% 1/10W
R3249	1-216-073-00	RES,CHIP	10K 5% 1/10W
R3250	1-216-049-91	RES,CHIP	1K 5% 1/10W
R3260	1-216-025-91	RES,CHIP	100 5% 1/10W
R3261	1-216-025-91	RES,CHIP	100 5% 1/10W
R3262	1-216-101-00	RES,CHIP	150K 5% 1/10W
R3263	1-216-093-91	RES,CHIP	68K 5% 1/10W

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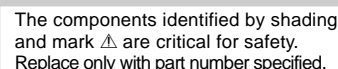
REF. NO.	PART NO.	DESCRIPTION			REMARK
R3264	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R3266	1-216-295-91	SHORT	0		
R3267	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3268	1-216-049-91	RES,CHIP	1K	5%	1/10W
R3269	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3270	1-216-295-91	SHORT	0		
R3271	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3272	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3273	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R3274	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3275	1-216-295-91	SHORT	0		
R3276	1-216-295-91	SHORT	0		
R3277	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3278	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3279	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R3280	1-216-033-00	RES,CHIP	220	5%	1/10W
R3281	1-216-033-00	RES,CHIP	220	5%	1/10W
R3282	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3283	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3284	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3285	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3286	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3287	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3288	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3289	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3290	1-216-081-00	RES,CHIP	22K	5%	1/10W
R3291	1-216-079-00	RES,CHIP	18K	5%	1/10W
R3294	1-216-073-00	RES,CHIP	10K	5%	1/10W
R3295	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3296	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R3297	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3298	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R3299	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R6200	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6201	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6202	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6203	1-216-295-91	SHORT	0		
R6205	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6207	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6209	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6213	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6214	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6219	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6235	1-216-029-00	RES,CHIP	150	5%	1/10W
R6236	1-216-075-00	RES,CHIP	12K	5%	1/10W
R6237	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6239	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6240	1-249-429-11	CARBON	10K	5%	1/4W
R6241	1-215-915-11	METAL OXIDE	470	5%	3W F
R6242	1-215-915-11	METAL OXIDE	470	5%	3W F
R6243	1-249-392-11	CARBON	8.2	5%	1/4W F
R6244	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6245	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6246	1-216-053-00	RES,CHIP	1.5K	5%	1/10W
R6248	1-216-041-00	RES,CHIP	470	5%	1/10W
R6249	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R6250	1-216-295-91	SHORT	0		

REF. NO.	PART NO.	DESCRIPTION			REMARK
R6251	1-216-049-91	RES,CHIP	1K	5%	1/10W
R6252	1-216-097-91	RES,CHIP	100K	5%	1/10W
R6253	1-216-041-00	RES,CHIP	470	5%	1/10W
R6254	1-216-017-91	RES,CHIP	47	5%	1/10W
R6255	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6256	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6257	1-216-061-00	RES,CHIP	3.3K	5%	1/10W
R6258	1-216-017-91	RES,CHIP	47	5%	1/10W
R6259	1-216-308-00	RES,CHIP	4.7	5%	1/10W
R6260	1-216-073-00	RES,CHIP	10K	5%	1/10W
R6262	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6263	1-216-059-00	RES,CHIP	2.7K	5%	1/10W
R6266	1-216-089-91	RES,CHIP	47K	5%	1/10W
R6268	1-216-065-91	RES,CHIP	4.7K	5%	1/10W
R6278	1-216-295-91	SHORT	0		
<TUNER>					
TU1401	8-598-450-01	TUNER, FSS BTF-LG434			

<CAPACITOR>					
* A-1331-926-A C BOARD, COMPLETE					

4-382-854-11 SCREW (M3X10), P, SW (+)					
C700	1-110-389-11	FILM MELF	0.1MF	5%	250V
C701	1-162-114-00	CERAMIC	0.0047MF		2KV
C702	1-102-074-00	CERAMIC	0.001MF	10%	50V
C704	1-107-652-11	ELECT	10MF	20%	250V
C707	1-137-399-11	MYLAR	0.1MF	5%	50V
C708	1-102-228-00	CERAMIC	470PF	10%	500V
C709	1-102-228-00	CERAMIC	470PF	10%	500V
C710	1-102-960-00	CERAMIC	24PF	5%	50V
C711	1-102-852-91	CERAMIC	47PF	5%	50V
C712	1-102-525-11	CERAMIC	68PF	5%	50V
C713	1-102-228-00	CERAMIC	470PF	10%	500V
C716	1-126-968-11	ELECT	100MF	20%	50V
C717	1-107-651-11	ELECT	4.7MF	20%	250V
C726	1-104-664-11	ELECT	47MF	20%	25V
C1800	1-126-964-11	ELECT	10MF	20%	50V
C1803	1-126-964-11	ELECT	10MF	20%	50V
C1804	1-126-964-11	ELECT	10MF	20%	50V
C1809	1-126-942-61	ELECT	1000MF	20%	25V
<CONNECTOR>					
CN700	1-695-915-11	TAB (CONTACT)			
CN701	1-508-765-00	PIN, CONNECTOR (5MM PITCH) 3P			
CN702	1-695-915-11	TAB (CONTACT)			
CN703	* 1-564-509-11	PLUG, CONNECTOR 6P			
CN704	1-695-915-11	TAB (CONTACT)			

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REF. NO.	PART NO.	DESCRIPTION				REMARK
R705	1-249-417-11	CARBON	1K	5%	1/4W	
R706	1-249-417-11	CARBON	1K	5%	1/4W	
R707	1-215-414-00	METAL	510	1%	1/4W	
R708	1-249-417-11	CARBON	1K	5%	1/4W	
R709	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R711	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R712	1-215-903-11	METAL OXIDE	68K	5%	2W	F
R713	1-215-461-00	METAL	47K	1%	1/4W	
R714	1-249-425-11	CARBON	4.7K	5%	1/4W	
R715	1-249-413-11	CARBON	470	5%	1/4W	
R716	1-249-413-11	CARBON	470	5%	1/4W	
R717	1-249-425-11	CARBON	4.7K	5%	1/4W	
R718	1-247-752-11	CARBON	1K	5%	1/2W	
R719	1-249-425-11	CARBON	4.7K	5%	1/4W	
R722	1-247-752-11	CARBON	1K	5%	1/2W	
R723	1-249-413-11	CARBON	470	5%	1/4W	
R724	1-247-752-11	CARBON	1K	5%	1/2W	
R730	1-216-392-11	METAL OXIDE	1.8	5%	3W	F
R734	1-247-739-11	CARBON	100	5%	1/2W	
R744	1-215-415-00	METAL	560	1%	1/4W	
R745	1-215-410-00	METAL	360	1%	1/4W	
R1800	1-249-417-11	CARBON	1K	5%	1/4W	
R1801	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1802	1-249-382-11	CARBON	1.2	5%	1/4W	F
R1803	1-249-382-11	CARBON	1.2	5%	1/4W	F
R1805	1-249-429-11	CARBON	10K	5%	1/4W	
R1806	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1808	1-249-425-11	CARBON	4.7K	5%	1/4W	
R1809	1-249-435-11	CARBON	33K	5%	1/4W	
R1810	1-249-435-11	CARBON	33K	5%	1/4W	
R1811	1-249-440-11	CARBON	82K	5%	1/4W	
R1812	1-249-435-11	CARBON	33K	5%	1/4W	
R1821	1-249-440-11	CARBON	82K	5%	1/4W	
R1822	1-249-435-11	CARBON	33K	5%	1/4W	
R1823	1-249-426-11	CARBON	5.6K	5%	1/4W	
R1824	1-249-435-11	CARBON	33K	5%	1/4W	
R1825	1-247-843-11	CARBON	3.3K	5%	1/4W	
<VARIABLE RESISTOR>						
RV702	1-241-656-21	RES, ADJ, METAL FILM 110M				
RV1801	1-223-241-11	RES. ADJ. CARBON 47K				

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1343-628-A D2 BOARD, COMPLETE *****				<IC>			
				IC2801	8-759-700-07	IC NJM2903M	
				IC2803	8-759-701-59	IC NJM78M09FA	
				IC2805	8-759-998-98	IC LM358D	
				IC2806	8-759-700-07	IC NJM2903M	
<CAPACITOR>				<CHIP CONDUCTOR>			
C2801	1-130-479-00	MYLAR	0.0047MF 5% 50V	JR2006	1-216-295-91	SHORT	0
C2803	1-136-357-11	FILM	680PF 5% 50V	JR2803	1-216-295-91	SHORT	0
C2805	1-104-664-11	ELECT	47MF 20% 25V	JR2804	1-216-295-91	SHORT	0
C2806	1-136-559-11	MYLAR	0.0047MF 10% 400V	JR2805	1-216-295-91	SHORT	0
C2809	1-126-964-11	ELECT	10MF 20% 50V	<COIL>			
C2810	1-102-228-00	CERAMIC	470PF 10% 500V	L2801	1-406-677-11	INDUCTOR	10MMH
C2811	1-107-938-11	ELECT	0.47MF 20% 160V	L2802	1-459-111-00	INDUCTOR	10MMH
C2813	1-107-636-11	ELECT	10MF 20% 160V	L2803	1-414-502-21	INDUCTOR	33MMH
C2814	1-126-964-11	ELECT	10MF 20% 50V	L2806	1-406-678-11	INDUCTOR	15MMH
C2817	1-102-244-00	CERAMIC	220PF 10% 500V	<TRANSISTOR>			
C2818	1-129-928-00	FILM	0.0027MF 5% 630V	Q2802	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
C2819	1-104-664-11	ELECT	47MF 20% 25V	Q2805	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
C2820	1-107-714-11	ELECT	10MF 20% 16V	Q2806	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2821	1-130-469-00	MYLAR	680PF 5% 50V	Q2807	8-729-043-95	TRANSISTOR 2SC3840(3)	
C2822	1-106-375-12	MYLAR	0.022MF 10% 250V	Q2811	8-729-931-45	TRANSISTOR IRF614	
C2824	1-104-664-11	ELECT	47MF 20% 25V	Q2813	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2825	1-136-601-11	FILM	0.01MF 5% 630V	Q2821	8-729-120-28	TRANSISTOR 2SC1623-L5L6	
C2826	1-137-194-81	FILM	0.47MF 5% 50V	Q2822	8-729-026-49	TRANSISTOR 2SA1037AK-T146-R	
C2828	1-107-714-11	ELECT	10MF 20% 16V	Q2823	8-729-017-06	TRANSISTOR 2SC4793	
C2829	1-164-161-11	CERAMIC CHIP	0.0022MF 10% 50V	Q2824	8-729-140-97	TRANSISTOR 2SB734-34	
C2830	1-130-480-00	MYLAR	0.0056MF 5% 50V	<RESISTOR>			
C2832	1-126-960-11	ELECT	1MF 20% 50V	R2801	1-216-051-00	RES,CHIP	1.2K 5% 1/10W
C2833	1-137-366-11	FILM	0.0022MF 5% 50V	R2803	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
C2834	1-106-220-00	MYLAR	0.1MF 10% 100V	R2804	1-216-041-00	RES,CHIP	470 5% 1/10W
C2835	1-216-295-91	SHORT	0	R2806	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
C2837	1-102-129-00	CERAMIC	0.01MF 10% 50V	R2809	1-216-073-00	RES,CHIP	10K 5% 1/10W
C2840	1-137-466-11	MYLAR	0.082MF 5% 100V	R2812	1-216-097-91	RES,CHIP	100K 5% 1/10W
C2841	1-136-177-00	FILM	1MF 5% 50V	R2813	1-216-089-91	RES,CHIP	47K 5% 1/10W
C2842	1-130-477-00	MYLAR	0.0033MF 5% 50V	R2816	1-216-097-91	RES,CHIP	100K 5% 1/10W
C2843	1-107-714-11	ELECT	10MF 20% 16V	R2820	1-216-089-91	RES,CHIP	47K 5% 1/10W
C2900	1-130-480-00	MYLAR	0.0056MF 5% 50V	R2821	1-249-412-11	CARBON	390 5% 1/4W F
C2901	1-126-964-11	ELECT	10MF 20% 50V	R2824	1-249-393-11	CARBON	10 5% 1/4W F
<CONNECTOR>				R2825	1-216-037-00	RES,CHIP	330 5% 1/10W
CN2821 *	1-564-506-11	PLUG, CONNECTOR 3P		R2827	1-216-041-00	RES,CHIP	470 5% 1/10W
CN2822 *	1-564-510-11	PLUG, CONNECTOR 7P		R2830	1-215-899-11	METAL OXIDE	15K 5% 2W F
CN2823	1-695-915-11	TAB (CONTACT)		R2831	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
<DIODE>				R2833	1-216-460-11	METAL OXIDE	3.9K 5% 2W F
D2801	8-719-988-61	DIODE 1SS355TE-17		R2834	1-215-873-00	METAL OXIDE	4.7K 5% 1W F
D2803	8-719-063-73	DIODE D1NL20U-TR		R2837	1-216-063-91	RES,CHIP	3.9K 5% 1/10W
D2804	8-719-063-73	DIODE D1NL20U-TR		R2838	1-216-675-11	METAL CHIP	10K 0.50% 1/10W
D2806	8-719-302-43	DIODE EL1Z		R2839	1-216-081-00	RES,CHIP	22K 5% 1/10W
D2813	8-719-988-61	DIODE 1SS355TE-17		R2840	1-216-097-91	RES,CHIP	100K 5% 1/10W
D2814	8-719-210-21	DIODE 11EQS04		R2843	1-216-097-91	RES,CHIP	100K 5% 1/10W
D2815	8-719-911-19	DIODE 1SS119-25		R2844	1-216-097-91	RES,CHIP	100K 5% 1/10W
D2816	8-719-911-19	DIODE 1SS119-25					

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REF. NO.	PART NO.	DESCRIPTION	REMARK		
R2846	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2847	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2857	1-216-671-11	METAL CHIP	6.8K	0.50%	1/10W
R2858	1-216-051-00	RES,CHIP	1.2K	5%	1/10W
R2859	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2860	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2861	1-216-107-00	RES,CHIP	270K	5%	1/10W
R2862	1-216-107-00	RES,CHIP	270K	5%	1/10W
R2866	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2867	1-216-689-11	RES,CHIP	39K	5%	1/10W
R2869	1-216-113-00	RES,CHIP	470K	5%	1/10W
R2871	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2872	1-216-057-00	RES,CHIP	2.2K	5%	1/10W
R2874	1-216-085-00	RES,CHIP	33K	5%	1/10W
R2877	1-216-421-11	METAL OXIDE	12	5%	1W F
R2878	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2879	1-216-081-00	RES,CHIP	22K	5%	1/10W
R2880	1-216-073-00	RES,CHIP	10K	5%	1/10W
R2882	1-216-069-00	RES,CHIP	6.8K	5%	1/10W
R2883	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2884	1-216-067-00	RES,CHIP	5.6K	5%	1/10W
R2885	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2886	1-216-063-91	RES,CHIP	3.9K	5%	1/10W
R2887	1-216-651-11	METAL CHIP	1K	0.50%	1/10W
R2888	1-216-049-91	RES,CHIP	1K	5%	1/10W
R2889	1-216-101-00	RES,CHIP	150K	5%	1/10W
R2900	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2901	1-216-089-91	RES,CHIP	47K	5%	1/10W
R2902	1-216-089-91	RES,CHIP	47K	5%	1/10W
		<SWITCH>			
S2801	1-572-707-11	SWITCH, LEVER			
		<TRANSFORMER>			
T2801	1-424-584-11	TRANSFORMER, DYNAMIC FOCUS			

	* A-1343-661-A	DH BOARD, COMPLETE			

		<CAPACITOR>			
C3801	1-126-964-11	ELECT	10MF	20%	50V
C3804	1-102-129-00	CERAMIC	0.01MF	10%	50V
C3805	1-126-964-11	ELECT	10MF	20%	50V
C3807	1-102-129-00	CERAMIC	0.01MF	10%	50V
C3816	1-126-964-11	ELECT	10MF	20%	50V
C3819	1-126-960-11	ELECT	1MF	20%	50V
C3822	1-136-165-00	FILM	0.1MF	5%	50V

REF. NO.	PART NO.	DESCRIPTION	REMARK		
		<CONNECTOR>			
CN3802*	1-564-507-11	PLUG, CONNECTOR 4P			
CN3803*	1-564-506-11	PLUG, CONNECTOR 3P			
		<DIODE>			
D3805	8-719-911-19	DIODE 1SS119-25			
		<IC>			
IC3805	8-759-822-38	IC LA6510			
IC3807	1-475-556-11	SENSOR UNIT, MAGNETIC			
		<TRANSISTOR>			
Q3807	8-729-030-02	TRANSISTOR DTC144ESA			
Q3808	8-729-030-02	TRANSISTOR DTC144ESA			
Q3809	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q3810	8-729-119-76	TRANSISTOR 2SA1175-HFE			
Q3811	8-729-119-78	TRANSISTOR 2SC2785-HFE			
Q3812	8-729-119-78	TRANSISTOR 2SC2785-HFE			
		<RESISTOR>			
R3802	1-249-417-11	CARBON	1K	5%	1/4W
R3803	1-249-417-11	CARBON	1K	5%	1/4W
R3804	1-215-444-00	METAL	9.1K	1%	1/4W
R3805	1-249-422-11	CARBON	2.7K	5%	1/4W
R3807	1-215-413-00	METAL	470	1%	1/4W
R3808	1-247-883-00	CARBON	150K	5%	1/4W
R3809	1-247-876-11	CARBON	75K	5%	1/4W
R3810	1-249-425-11	CARBON	4.7K	5%	1/4W
R3814	1-249-411-11	CARBON	330	5%	1/4W
R3823	1-249-395-11	CARBON	15	5%	1/4W
R3825	1-249-417-11	CARBON	1K	5%	1/4W
R3828	1-249-377-11	CARBON	0.47	5%	1/4W F
R3839	1-249-429-11	CARBON	10K	5%	1/4W
R3845	1-249-425-11	CARBON	4.7K	5%	1/4W
R3846	1-249-417-11	CARBON	1K	5%	1/4W
R3847	1-247-807-31	CARBON	100	5%	1/4W
R3848	1-249-417-11	CARBON	1K	5%	1/4W
R3849	1-249-377-11	CARBON	0.47	5%	1/4W F
R3852	1-249-441-11	CARBON	100K	5%	1/4W
R3854	1-249-429-11	CARBON	10K	5%	1/4W

The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

F **H₃**

REF. NO.	PART NO.	DESCRIPTION	REMARK				REF. NO.	PART NO.	DESCRIPTION	REMARK			
	* A-1241-346-A	F BOARD, COMPLETE *****					C3912	1-102-114-00	CERAMIC	470PF	10%	50V	
							C3913	1-126-960-11	ELECT	1MF	20%	50V	
	1-533-223-11	HOLDER, FUSE					C3914	1-126-965-11	ELECT	22MF	20%	50V	
		<CAPACITOR>							<CONNECTOR>				
C654	1-117-703-11	CERAMIC	0.0047MF	99%	250V		CN3601 *	1-580-844-11	PIN, CONNECTOR (POWER)				
C4601 \triangle	1-136-567-51	FILM	0.22MF	20%	250V		CN3602 *	1-695-292-11	PIN, CONNECTOR (POWER)				
C4602 \triangle	1-109-835-51	FILM	0.22MF	20%	250V		CN3603	1-695-915-11	TAB (CONTACT)				
		<CONNECTOR>					CN3901 *	1-564-507-11	PLUG, CONNECTOR 4P				
							CN3902 *	1-564-509-11	PLUG, CONNECTOR 6P				
CN4601 * \triangle	1-580-843-11	PIN, CONNECTOR (POWER)					CN3903 *	1-564-507-11	PLUG, CONNECTOR 4P (KV-XF34M93 ONLY)				
CN4602 * \triangle	1-580-843-11	PIN, CONNECTOR (POWER)					CN3904 *	1-564-512-11	PLUG, CONNECTOR 9P				
CN4603	1-695-915-11	TAB (CONTACT)					CN3905 *	1-564-512-11	PLUG, CONNECTOR 9P				
		<FUSE>					CN3906 *	1-564-506-11	PLUG, CONNECTOR 3P (KV-XF34M93 ONLY)				
F4601 \triangle	1-532-299-11	FUSE, TIME-LAG 5A/250V							<DIODE>				
		<RESISTOR>					D3900	8-719-121-26	DIODE RD9.1ESL2				
R4601 \triangle	1-202-719-91	SOLID	1M	10%	1/2W		D3901	8-719-121-26	DIODE RD9.1ESL2				
		<TRANSFORMER>					D3902	8-719-121-26	DIODE RD9.1ESL2				
T4601	1-431-536-11	TRANSFORMER, LINE FILTER					D3905	8-719-121-26	DIODE RD9.1ESL2				
T4602	1-431-182-11	TRANSFORMER, LINE FILTER					D3906	8-719-045-19	DIODE SPB-26MVWF				
		<VARISTOR>					D3907	8-719-121-26	DIODE RD9.1ESL2				
VDR461	1-801-073-31	VARISTOR TNR14V471K660					D3908	8-719-121-26	DIODE RD9.1ESL2				
VDR461 *	4-374-846-01	COVER, CAPACITOR, CAP TYPE							<IC>				
*****						IC3901	8-742-041-12	HYB IC SBX1981-11(12)					
		<JACK>							<JACK>				
* A-1372-576-A		H3 BOARD, COMPLETE (EXCEPT KV-XF34M93) *****					J3901	1-750-264-11	JACK				
* A-1372-573-A		H3 BOARD, COMPLETE (KV-XF34M93) *****					J3902	1-784-646-11	TERMINAL, S				
							J3903	1-770-329-11	JACK, PIN 3P				
* 4-055-304-01		HOLDER, LED							<COIL>				
		<CAPACITOR>					L3901	1-408-603-31	INDUCTOR	10UH			
C3900	1-136-153-00	FILM	0.01MF	5%	50V		L3902	1-408-603-31	INDUCTOR	10UH			
C3902	1-136-153-00	FILM	0.01MF	5%	50V		L3903	1-406-976-11	INDUCTOR	68UH (KV-XF34M93 ONLY)			
C3904	1-104-664-11	ELECT	47MF	20%	25V				<TRANSISTOR>				
C3905	1-126-965-11	ELECT	22MF	20%	50V		Q3901	8-729-030-02	TRANSISTOR DTC144ESA				
C3906	1-126-965-11	ELECT	22MF	20%	50V		Q3902	8-729-030-02	TRANSISTOR DTC144ESA				
C3907	1-136-175-00	FILM (KV-XF34M93 ONLY)	0.68MF	5%	50V				<RESISTOR>				
C3910	1-104-664-11	ELECT	47MF	20%	16V		R3900	1-249-411-11	CARBON	330	5%	1/4W	
C3911	1-104-664-11	ELECT	47MF	20%	16V		R3901	1-249-411-11	CARBON	330	5%	1/4W	
							R3902	1-247-804-11	CARBON	75	5%	1/4W	
							R3904	1-249-429-11	CARBON	10K	5%	1/4W	
							R3905	1-249-429-11	CARBON	10K	5%	1/4W	
							R3907	1-249-426-11	CARBON	5.6K	5%	1/4W	
							R3908	1-249-413-11	CARBON	470	5%	1/4W	
							R3909	1-249-417-11	CARBON	1K	5%	1/4W	

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J₂ (KV-XF34M93 ONLY)

P₁ (KV-XF34M93 ONLY)

The components identified by shading and mark △ are critical for safety. Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK
R3910	1-249-420-11	CARBON	1.8K 5% 1/4W
R3911	1-249-411-11	CARBON	330 5% 1/4W
R3912	1-247-843-11	CARBON	3.3K 5% 1/4W
R3913	1-249-429-11	CARBON	10K 5% 1/4W
R3914	1-249-411-11	CARBON	330 5% 1/4W
R3915	1-249-429-11	CARBON	10K 5% 1/4W
R3916	1-249-401-11	CARBON	47 5% 1/4W
R3917	1-247-804-11	CARBON	75 5% 1/4W
R3918	1-247-815-91	CARBON	220 5% 1/4W
R3919	1-247-815-91	CARBON	220 5% 1/4W
R3920	1-247-807-31	CARBON	100 5% 1/4W
R3921	1-247-807-31	CARBON	100 5% 1/4W
R3922	1-249-421-11	CARBON	2.2K 5% 1/4W
R3923	1-247-815-91	CARBON	220 5% 1/4W
R3924	1-247-804-11	CARBON	75 5% 1/4W

<SWITCH>

S3601 △	1-571-433-31	SWITCH, PUSH (AC POWER)
S3902	1-692-431-21	SWITCH, TACTILE
S3903	1-692-431-21	SWITCH, TACTILE
S3904	1-692-431-21	SWITCH, TACTILE
S3905	1-692-431-21	SWITCH, TACTILE
S3906	1-692-431-21	SWITCH, TACTILE
S3907	1-692-431-21	SWITCH, TACTILE
S3908	1-692-431-21	SWITCH, TACTILE

* A-1388-247-A J2 BOARD, COMPLETE (KV-XF34M93 ONLY)

<CONNECTOR>

CN3451 * 1-564-518-11 PLUG, CONNECTOR 3P

<DIODE>

D3453 8-719-110-72 DIODE RD30ESB2
D3454 8-719-110-72 DIODE RD30ESB2

<JACK>

J3451 1-694-467-11 TERMINAL, PUSH (2P)

REF. NO.	PART NO.	DESCRIPTION	REMARK
* A-1190-349-A	P1 BOARD, COMPLETE (KV-XF34M93 ONLY)	*****	
		<CAPACITOR>	
C4300	1-164-346-11	CERAMIC CHIP 1MF	16V
C4301	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4302	1-163-031-11	CERAMIC CHIP 0.01MF	50V
C4303	1-126-960-11	ELECT 1MF	20% 50V
C4304	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4305	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4307	1-164-346-11	CERAMIC CHIP 1MF	16V
C4310	1-104-664-11	ELECT 47MF	20% 16V
C4312	1-104-664-11	ELECT 47MF	20% 16V
C4313	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4314	1-126-964-11	ELECT 10MF	20% 50V
C4315	1-104-666-11	ELECT 220MF	20% 25V
C4317	1-126-967-11	ELECT 47MF	20% 50V
C4318	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4319	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C4320	1-163-233-11	CERAMIC CHIP 18PF	5% 50V
C4321	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4322	1-126-957-11	ELECT 0.22MF	20% 50V
C4323	1-163-259-91	CERAMIC CHIP 220PF	5% 50V
C4324	1-126-963-11	ELECT 4.7MF	20% 50V
C4325	1-126-967-11	ELECT 47MF	20% 50V
C4326	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4327	1-164-005-11	CERAMIC CHIP 0.47MF	25V
C4329	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4330	1-126-963-11	ELECT 4.7MF	20% 50V
C4331	1-126-964-11	ELECT 10MF	20% 50V
C4332	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4333	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4334	1-126-960-11	ELECT 1MF	20% 50V
C4335	1-163-017-00	CERAMIC CHIP 0.0047MF	10% 50V
C4336	1-164-004-11	CERAMIC CHIP 0.1MF	10% 25V
C4337	1-164-346-11	CERAMIC CHIP 1MF	16V
C4338	1-164-346-11	CERAMIC CHIP 1MF	16V
C4339	1-164-346-11	CERAMIC CHIP 1MF	16V
C4340	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4341	1-104-665-11	ELECT 100MF	20% 10V
C4347	1-104-665-11	ELECT 100MF	20% 10V
C4348	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4349	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4350	1-126-964-11	ELECT 10MF	20% 50V
C4352	1-163-251-11	CERAMIC CHIP 100PF	5% 50V
C4353	1-104-665-11	ELECT 100MF	20% 10V
C4355	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4356	1-164-346-11	CERAMIC CHIP 1MF	16V
C4357	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4359	1-163-038-91	CERAMIC CHIP 0.1MF	25V
C4362	1-163-235-11	CERAMIC CHIP 22PF	5% 50V
C4363	1-163-237-11	CERAMIC CHIP 27PF	5% 50V
C4364	1-104-665-11	ELECT 100MF	20% 10V
C4365	1-163-038-91	CERAMIC CHIP 0.1MF	25V

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REF. NO.	PART NO.	DESCRIPTION				REMARK	REF. NO.	PART NO.	DESCRIPTION				REMARK
C4366	1-163-031-11	CERAMIC CHIP	0.01MF		50V		Q4306	8-729-230-49	TRANSISTOR 2SC2712-YG				
C4367	1-126-960-11	ELECT	1MF	20%	50V		Q4307	8-729-027-43	TRANSISTOR DTC114EKA-T146				
C4371	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V		Q4308	8-729-216-22	TRANSISTOR 2SA1162-G				
C4372	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		Q4313	8-729-216-22	TRANSISTOR 2SA1162-G				
C4377	1-104-665-11	ELECT	100MF	20%	10V		Q4314	8-729-216-22	TRANSISTOR 2SA1162-G				
C4380	1-163-038-91	CERAMIC CHIP	0.1MF		25V		Q4315	8-729-216-22	TRANSISTOR 2SA1162-G				
C4394	1-104-664-11	ELECT	47MF	20%	16V		Q4316	8-729-216-22	TRANSISTOR 2SA1162-G				
C4395	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		Q4317	8-729-230-49	TRANSISTOR 2SC2712-YG				
C4396	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		Q4318	8-729-230-49	TRANSISTOR 2SC2712-YG				
C4397	1-163-249-11	CERAMIC CHIP	82PF	5%	50V		Q4322	8-729-230-49	TRANSISTOR 2SC2712-YG				
C4398	1-126-964-11	ELECT	10MF	20%	50V		Q4323	8-729-230-49	TRANSISTOR 2SC2712-YG				
C4399	1-126-964-11	ELECT	10MF	20%	50V		Q4324	8-729-230-49	TRANSISTOR 2SC2712-YG				
							Q4324	8-729-422-27	TRANSISTOR 2SD601A-Q				
<CONNECTOR>							Q4325	8-729-216-22	TRANSISTOR 2SA1162-G				
							Q4326	8-729-421-19	TRANSISTOR UN2213				
CN4301	1-764-811-11	CONNECTOR, BOARD TO BOARD 10P					Q4327	8-729-216-22	TRANSISTOR 2SA1162-G				
CN4302	1-764-811-11	CONNECTOR, BOARD TO BOARD 10P					Q4328	8-729-216-22	TRANSISTOR 2SA1162-G				
CN4303 *	1-564-506-11	PLUG, CONNECTOR 3P					Q4362	8-729-216-22	TRANSISTOR 2SA1162-G				
							Q4363	8-729-216-22	TRANSISTOR 2SA1162-G				
<FERRITE BEAD>							Q4364	8-729-216-22	TRANSISTOR 2SA1162-G				
FB4301	1-410-397-21	FERRITE	1.1UH				Q4365	8-729-230-49	TRANSISTOR 2SC2712-YG				
							Q4366	8-729-230-49	TRANSISTOR 2SC2712-YG				
							Q4368	8-729-230-49	TRANSISTOR 2SC2712-YG				
<FILTER>							Q4369	8-729-230-49	TRANSISTOR 2SC2712-YG				
							Q4371	8-729-230-49	TRANSISTOR 2SC2712-YG				
FL4301	1-236-728-41	ENCAPSULATED COMPONENT					Q4372	8-729-230-49	TRANSISTOR 2SC2712-YG				
							Q4373	8-729-230-49	TRANSISTOR 2SC2712-YG				
<IC>							Q4374	8-729-230-49	TRANSISTOR 2SC2712-YG				
IC4301	8-759-533-89	IC SDA9288XE-GEG-B121					<RESISTOR>						
IC4302	8-759-568-62	IC BA7606F-E2											
IC4303	8-752-088-39	IC CXA2130S					R4300	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
							R4301	1-216-069-00	RES,CHIP	6.8K	5%	1/10W	
							R4302	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
<COIL>							R4304	1-216-089-91	RES,CHIP	47K	5%	1/10W	
							R4305	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4302	1-412-537-31	INDUCTOR	100UH				R4306	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
L4304	1-408-603-31	INDUCTOR	10UH				R4307	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
L4305	1-408-603-31	INDUCTOR	10UH				R4308	1-216-081-00	RES,CHIP	22K	5%	1/10W	
L4306	1-408-603-31	INDUCTOR	10UH				R4309	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
L4307	1-408-412-00	INDUCTOR	18UH				R4310	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4308	1-408-611-31	INDUCTOR	47UH										
L4309	1-408-603-31	INDUCTOR	10UH				R4311	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4310	1-408-611-31	INDUCTOR	47UH				R4312	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4311	1-408-603-31	INDUCTOR	10UH				R4313	1-216-049-91	RES,CHIP	1K	5%	1/10W	
L4312	1-408-603-31	INDUCTOR	10UH				R4314	1-216-049-91	RES,CHIP	1K	5%	1/10W	
							R4315	1-216-049-91	RES,CHIP	1K	5%	1/10W	
L4313	1-414-188-41	INDUCTOR	68UH										
L4314	1-414-856-11	INDUCTOR	10UH				R4316	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4315	1-414-856-11	INDUCTOR	10UH				R4317	1-216-025-91	RES,CHIP	100	5%	1/10W	
L4316	1-414-856-11	INDUCTOR	10UH				R4318	1-216-033-00	RES,CHIP	220	5%	1/10W	
L4317	1-414-856-11	INDUCTOR	10UH				R4319	1-216-045-00	RES,CHIP	680	5%	1/10W	
							R4320	1-216-081-00	RES,CHIP	22K	5%	1/10W	
<TRANSISTOR>							R4321	1-216-045-00	RES,CHIP	680	5%	1/10W	
							R4324	1-216-049-91	RES,CHIP	1K	5%	1/10W	
Q4301	8-729-230-49	TRANSISTOR 2SC2712-YG					R4325	1-216-027-00	RES,CHIP	120	5%	1/10W	
Q4302	8-729-216-22	TRANSISTOR 2SA1162-G					R4326	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
Q4303	8-729-424-59	TRANSISTOR UN2212					R4327	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
Q4304	8-729-027-43	TRANSISTOR DTC114EKA-T146											
Q4305	8-729-027-43	TRANSISTOR DTC114EKA-T146											

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REF. NO.	PART NO.	DESCRIPTION	REMARK			
R4328	1-216-067-00	RES,CHIP	5.6K	5%	1/10W	
R4329	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4330	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R4332	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R4333	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4334	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4335	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4336	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4337	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4338	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4339	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4340	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R4341	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R4343	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4344	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4345	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4346	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4347	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4348	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R4349	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4350	1-216-085-00	RES,CHIP	33K	5%	1/10W	
R4351	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4352	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4353	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4354	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4355	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4356	1-216-647-11	METAL CHIP	680	0.50%	1/10W	
R4357	1-216-043-91	RES,CHIP	560	5%	1/10W	
R4358	1-216-645-11	METAL CHIP	560	0.50%	1/10W	
R4359	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4360	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4361	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4362	1-216-055-00	RES,CHIP	1.8K	5%	1/10W	
R4363	1-216-033-00	RES,CHIP	220	5%	1/10W	
R4364	1-216-089-91	RES,CHIP	47K	5%	1/10W	
R4365	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R4366	1-216-295-91	SHORT	0			
R4368	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4369	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4370	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4371	1-216-039-00	RES,CHIP	390	5%	1/10W	
R4372	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4373	1-216-077-00	RES,CHIP	15K	5%	1/10W	
R4374	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4375	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4376	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R4377	1-216-047-91	RES,CHIP	820	5%	1/10W	
R4378	1-216-047-91	RES,CHIP	820	5%	1/10W	
R4379	1-216-649-11	METAL CHIP	820	0.50%	1/10W	
R4380	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R4382	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4383	1-216-675-11	METAL CHIP	10K	0.50%	1/10W	
R4384	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R4385	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4386	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4387	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4388	1-216-025-91	RES,CHIP	100	5%	1/10W	

REF. NO.	PART NO.	DESCRIPTION	REMARK			
R4389	1-216-065-91	RES,CHIP	4.7K	5%	1/10W	
R4390	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4391	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4392	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4393	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4394	1-216-075-00	RES,CHIP	12K	5%	1/10W	
R4395	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4396	1-216-081-00	RES,CHIP	22K	5%	1/10W	
R4397	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4398	1-216-053-00	RES,CHIP	1.5K	5%	1/10W	
R4400	1-216-033-00	RES,CHIP	220	5%	1/10W	
R4401	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4402	1-216-295-91	SHORT	0			
R4408	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4414	1-216-025-91	RES,CHIP	100	5%	1/10W	
R4416	1-216-041-00	RES,CHIP	470	5%	1/10W	
R4431	1-216-049-91	RES,CHIP	1K	5%	1/10W	
R4432	1-216-689-11	RES,CHIP	39K	5%	1/10W	
R4433	1-216-073-00	RES,CHIP	10K	5%	1/10W	
R4434	1-216-045-00	RES,CHIP	680	5%	1/10W	
<CRYSTAL>						
X4301	1-781-134-21	VIBRATOR, CRYSTAL				
X4302	1-781-132-21	VIBRATOR, CRYSTAL				
X4303	1-760-095-21	VIBRATOR, CRYSTAL				

* A-1347-155-A V1 BOARD, COMPLETE (KV-XF34M31 ONLY)						

<CAPACITOR>						
C801	1-104-664-11	ELECT	47MF	20%	16V	
C805	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C806	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C815	1-163-251-11	CERAMIC CHIP	100PF	5%	50V	
C816	1-164-505-11	CERAMIC CHIP	2.2MF		16V	
C817	1-164-004-11	CERAMIC CHIP	0.1MF	10%	25V	
C818	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C820	1-163-239-11	CERAMIC CHIP	33PF	5%	50V	
C821	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C822	1-163-009-11	CERAMIC CHIP	0.001MF	10%	50V	
C823	1-126-933-11	ELECT	100MF	20%	16V	
C826	1-126-963-11	ELECT	4.7MF	20%	50V	
C829	1-163-113-00	CERAMIC CHIP	68PF	5%	50V	
C830	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C831	1-126-933-11	ELECT	100MF	20%	16V	
C832	1-126-964-11	ELECT	10MF	20%	50V	
C835	1-163-038-91	CERAMIC CHIP	0.1MF		25V	
C837	1-126-933-11	ELECT	100MF	20%	16V	

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REF. NO.	PART NO.	DESCRIPTION	REMARK	REF. NO.	PART NO.	DESCRIPTION	REMARK
<CONNECTOR>				R805	1-216-295-91	SHORT	0
CN801 *	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R807	1-216-295-91	SHORT	0
CN803 *	1-774-812-11	CONNECTOR, BOARD TO BOARD 7P		R813	1-216-295-91	SHORT	0
<DIODE>				R820	1-216-073-00	RES,CHIP	10K 5% 1/10W
D802	8-719-914-44	DIODE DAP202K		R821	1-216-083-00	RES,CHIP	27K 5% 1/10W
D803	8-719-105-46	DIODE RD3.3M-B2		R822	1-216-025-91	RES,CHIP	100 5% 1/10W
D804	8-719-105-91	DIODE RD5.6M-B2		R824	1-216-295-91	SHORT	0
D806	8-719-988-61	DIODE 1SS355TE-17		R825	1-216-295-91	SHORT	0
D807	8-719-988-61	DIODE 1SS355TE-17		R827	1-216-295-91	SHORT	0
<FERRITE BEAD>				R828	1-216-025-91	RES,CHIP	100 5% 1/10W
FB801	1-410-397-21	FERRITE	1.1UH	R829	1-216-025-91	RES,CHIP	100 5% 1/10W
FB802	1-410-397-21	FERRITE	1.1UH	R830	1-216-295-91	SHORT	0
FB803	1-410-397-21	FERRITE	1.1UH	R831	1-216-295-91	SHORT	0
FB804	1-410-682-31	INDUCTOR	470UH	R832	1-216-659-11	METAL CHIP	2.2K 0.50% 1/10W
FB805	1-410-397-21	FERRITE	1.1UH	R835	1-216-295-91	SHORT	0
<IC>				R839	1-216-655-11	METAL CHIP	1.5K 0.50% 1/10W
IC801	8-759-476-87	IC SAA5261		R841	1-216-025-91	RES,CHIP	100 5% 1/10W
<CHIP CONDUCTOR>				R842	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
JR801	1-216-295-91	SHORT	0	R843	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
JR802	1-216-295-91	SHORT	0	R844	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
JR804	1-216-295-91	SHORT	0	R845	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR805	1-216-295-91	SHORT	0	R846	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR806	1-216-295-91	SHORT	0	R847	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR807	1-216-295-91	SHORT	0	R848	1-216-049-91	RES,CHIP	1K 5% 1/10W
JR808	1-216-295-91	SHORT	0	R849	1-216-049-91	RES,CHIP	1K 5% 1/10W
<TRANSISTOR>				R850	1-216-105-91	RES,CHIP	220K 5% 1/10W
Q801	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R851	1-216-057-00	RES,CHIP	2.2K 5% 1/10W
Q803	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R853	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q805	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R857	1-216-081-00	RES,CHIP	22K 5% 1/10W
Q806	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R858	1-216-067-00	RES,CHIP	5.6K 5% 1/10W
Q807	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R861	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q808	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R862	1-260-095-11	CARBON	470 5% 1/2W
Q810	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R863	1-216-049-91	RES,CHIP	1K 5% 1/10W
Q811	8-729-019-01	TRANSISTOR 2SD2394-EF		R864	1-216-041-00	RES,CHIP	470 5% 1/10W
Q812	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R866	1-215-880-00	METAL OXIDE	10 5% 2W F
Q813	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R871	1-216-037-00	RES,CHIP	330 5% 1/10W
Q814	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R879	1-216-073-00	RES,CHIP	10K 5% 1/10W
Q817	8-729-900-53	TRANSISTOR DTC114EK		R880	1-216-041-00	RES,CHIP	470 5% 1/10W
Q818	8-729-120-28	TRANSISTOR 2SC1623-L5L6		R882	1-216-049-91	RES,CHIP	1K 5% 1/10W
<RESISTOR>				R884	1-216-025-91	RES,CHIP	100 5% 1/10W
R800	1-216-675-11	METAL CHIP	10K 0.50% 1/10W	R888	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
R801	1-216-295-91	SHORT	0	R889	1-216-073-00	RES,CHIP	10K 5% 1/10W
R802	1-216-025-91	RES,CHIP	100 5% 1/10W	R890	1-216-081-00	RES,CHIP	22K 5% 1/10W
R803	1-216-295-91	SHORT	0	R894	1-216-073-00	RES,CHIP	10K 5% 1/10W
R804	1-216-295-91	SHORT	0	R895	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
<CRYSTAL>				R896	1-216-073-00	RES,CHIP	10K 5% 1/10W
X801	1-578-774-11	VIBRATOR, CRYSTAL		R897	1-216-073-00	RES,CHIP	10K 5% 1/10W
<CRYSTAL>				R898	1-216-065-91	RES,CHIP	4.7K 5% 1/10W
<CRYSTAL>				*****			

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The components identified by shading
and mark \triangle are critical for safety.
Replace only with part number specified.

REF. NO.	PART NO.	DESCRIPTION	REMARK			
	* A-1342-481-A	VM1 BOARD, COMPLETE *****				
	4-382-854-11	SCREW (M3X10), P, SW (+)				
		<CAPACITOR>				
C5900	1-102-115-00	CERAMIC	560PF	10%	50V	
C5902	1-107-883-11	ELECT	330MF	20%	16V	
C5903	1-161-830-00	CERAMIC	0.0047MF		500V	
C5905	1-126-925-11	ELECT	470MF	20%	10V	
C5906	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5907	1-107-638-11	ELECT	33MF	20%	160V	
C5908	1-106-383-00	MYLAR	0.047MF	10%	200V	
C5909	1-126-968-11	ELECT	100MF	20%	50V	
C5910	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5911	1-107-949-11	ELECT	2.2MF	20%	160V	
C5912	1-104-999-11	MYLAR	0.1MF	10%	200V	
C5913	1-130-471-00	MYLAR	0.001MF	5%	50V	
C5914	1-126-933-11	ELECT	100MF	20%	16V	
C5916	1-130-491-00	MYLAR	0.047MF	5%	50V	
C5917	1-126-925-11	ELECT	470MF	20%	10V	
C5918	1-102-244-00	CERAMIC	220PF	10%	500V	
C5919	1-136-165-00	FILM	0.1MF	5%	50V	
		<CONNECTOR>				
CN2801 *	1-564-506-11	PLUG, CONNECTOR 3P				
CN5901 *	1-564-510-11	PLUG, CONNECTOR 7P				
CN5904 *	1-770-723-11	CONNECTOR, BOARD TO BOARD 8P				
		<DIODE>				
D5901	8-719-911-19	DIODE 1SS119-25				
D5902	8-719-110-88	DIODE RD39ESB2				
D5903	8-719-911-19	DIODE 1SS119-25				
D5904	8-719-110-88	DIODE RD39ESB2				
D5905	8-719-911-19	DIODE 1SS119-25				
D5906	1-249-406-11	CARBON	120	5%	1/4W	
D5907	1-249-406-11	CARBON	120	5%	1/4W	
		<COIL>				
L5901	1-414-187-11	INDUCTOR	47UH			
		<TRANSISTOR>				
Q5901	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5902	8-729-017-05	TRANSISTOR 2SA1837				
Q5903	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5904	8-729-119-76	TRANSISTOR 2SA1175-HFE				
Q5905	8-729-230-45	TRANSISTOR 2SC2458-YGR				
Q5906	8-729-017-06	TRANSISTOR 2SC4793				
Q5907	8-729-922-37	TRANSISTOR 2SD2144S-UVW				

REF. NO.	PART NO.	DESCRIPTION	REMARK			
		<RESISTOR>				
R5901	1-249-401-11	CARBON	47	5%	1/4W	
R5902	1-249-414-11	CARBON	560	5%	1/4W	F
R5903	1-247-734-11	CARBON	39	5%	1/2W	F
R5904	1-249-411-11	CARBON	330	5%	1/4W	
R5905	1-249-417-11	CARBON	1K	5%	1/4W	
R5906	1-249-417-11	CARBON	1K	5%	1/4W	
R5907	1-249-417-11	CARBON	1K	5%	1/4W	
R5908	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5909	1-247-815-91	CARBON	220	5%	1/4W	
R5910	1-249-403-11	CARBON	68	5%	1/4W	
R5911	1-249-439-11	CARBON	68K	5%	1/4W	
R5912	1-249-437-11	CARBON	47K	5%	1/4W	
R5914	1-249-403-11	CARBON	68	5%	1/4W	
R5915	1-249-429-11	CARBON	10K	5%	1/4W	
R5916	1-249-419-11	CARBON	1.5K	5%	1/4W	
R5917	1-249-416-11	CARBON	820	5%	1/4W	
R5918	1-249-429-11	CARBON	10K	5%	1/4W	
R5919	1-249-417-11	CARBON	1K	5%	1/4W	F
R5920	1-249-439-11	CARBON	68K	5%	1/4W	
R5921	1-216-476-11	METAL OXIDE	180	5%	3W	F
R5922	1-249-414-11	CARBON	560	5%	1/4W	
R5923	1-249-383-11	CARBON	1.5	5%	1/4W	F
R5925	1-249-400-11	CARBON	39	5%	1/4W	F
R5927	1-249-416-11	CARBON	820	5%	1/4W	
R5929	1-215-880-00	METAL OXIDE	10	5%	2W	F

MISCELLANEOUS

1-251-658-21 SPLITTER RF (KV-XF34M93 ONLY)

 \triangle 1-416-757-11 COIL, DEMAGNETIC

1-416-871-11 COIL, LANDING CORRECTION

1-452-032-00 MAGNET, DISC

1-452-094-00 CIRCULAR DISC MAGNET B

1-452-896-61 COIL, NA ROTATION (RT-200)

 \triangle 1-467-525-31 CAP BLOCK, HIGH VOLTAGE

1-529-179-11 SPEAKER (8CM)

1-529-190-11 SPEAKER (5CM)

1-529-348-11 SPEAKER, LOUD (12CM) (KV-XF34M93 ONLY)

* 1-555-110-00 P-P CABLE (KV-XF34M93 ONLY)

 \triangle 1-574-358-51 CORD, POWER (WITH CONNECTOR) 7.5A/250V (KV-XF34M31) \triangle 1-574-062-52 CORD, POWER (WITH CONNECTOR) 2.5A/250V (KV-XF34M50/XF34M80) \triangle 1-769-609-21 CORD, POWER (WITH CONNECTOR) (KV-XF34M93)

8-451-499-11 DEFLECTION YOKE (Y34RSA-M)

8-453-007-31 NA324-M3

 \triangle 8-735-062-05 PICTURE TUBE (A80LPD10X) (EXCEPT KV-XF34M50) \triangle 8-735-063-05 PICTURE TUBE (A80LPD10X) (KV-XF34M50)

REF. NO.	PART NO.	DESCRIPTION	REMARK
		ACCESSORIES AND PACKING MATERIALS	

	3-701-910-00	SCREW, SPECIAL (DIA. 3.8X20)	
	3-865-311-11	MANUAL, INSTALLATION (EXCEPT KV-XF34M80(E)/XF34M93)	
	3-866-104-11	MANUAL, INSTRUCTION (KV-XF34M93)	
	3-866-104-21	MANUAL, INSTRUCTION (KV-XF34M50/XF34M80(E))	
	3-866-104-31	MANUAL, INSTRUCTION (KV-XF34M31/XF34M80(ME))	
	* 4-046-772-01	BAG, PROTECTION	
	4-065-210-01	JOINT	
	* 4-068-588-01	INDIVIDUAL CARTON	
	* 4-068-589-01	TRAY	
	* 4-068-590-01	CUSHION (UPPER) (ASSY)	
	* 4-068-593-01	CUSHION (LOWER) (ASSY)	
	4-392-003-11	BAND, HOLD	
	4-392-004-11	CLIP	

		REMOTE COMMANDER	

	1-418-038-11	REMOTE COMMANDER (RM-954) (EXCEPT KV-XF34M93)	
	1-418-040-11	REMOTE COMMANDER (RM-953) (KV-XF34M93)	
	4-978-977-01	BATTERY COVER, REMOTE COMMANDER (FOR RM-953)	
	9-933-895-01	BATTERY COVER, REMOTE COMMANDER (FOR RM-954)	

